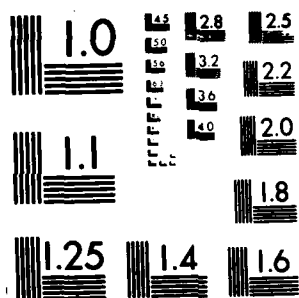


SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
JACKSONVILLE FLORIDA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC NOV 83

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INVENTORY

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SMOS, Jacksonville, FL  
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
93837	Jacksonville, Florida	30°14' N	81°41' W	22	KNIP	

### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1.	Weather Service Office, second deck of operations bldg.	Navy	1950	1959	30°14' N	81°40' W	30	Mercuria	24
2.	In old tower, two decks above roof of operations bldg.	"	1959	1962	"	"	57	"	"
3.	Weather Service Office, second deck of operations bldg.	"	1962	1968	"	"	30	"	"
4.	NWSF Building 118	"	1968	1976	"	"	39	"	"
5.	" "	"	1973		"	81°41' W	44	Aneroid	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	UNK	Atop operations control tower, disassembled 1956.	Selsyn	Triple	82'	1. Barograph (Marine) 2. Auto met stn (AN/GMQ-29) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13B) 5. Transmissometer (AN/GMQ-10C) 6. Radar (AN/FPS-106) 7. Weather Vision (AN/GMQ-27)
2.	1955	Installed 18' above main roof on operations building.	AN/UMQ-5	RD-108	40'	
3.	1958	Atop operations control tower	"	"	70'	
4.	1960	On Tacan Bldg near center of field	"	"	22'	
5.	1977	Adjacent to southwest corner of Bldg 935 near center of field	AN/UMQ-50	RO-447/GMQ-29	14'	
6.	1978	2000 ft NW of NAS Tacan	"	"	16'	
7.	1981	Atop Tacan Bldg near center of field	"	"	12'	
8.	1983	910 ft E of NAS JAX Tacan, 737' N of centerline at 6000 ft mark. Row 27	"	"	12'	

NOC Federal Building  
Abbeville, N. C.

CONTINUED ON REVERSE SIDE

#### SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

NOCD, Federal Building  
Asheville, N. C.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

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# **WEATHER CONDITIONS** ATMOSPHERIC PHENOMENA

 STATION **JACKSONVILLE, FLORIDA**  
STATION NAME

 YEARS **45-79**  
YEARS

 MONTH **ALL**  
MONTH

## PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	2.3	39.6	.2	.2		35.4	46.3	57.9			72.4	1274
FEB		1.1	41.4		.5		37.1	46.4	55.3			67.0	976
MAR		9.4	40.3		.3	.2	35.7	34.5	47.4		.4	57.7	1249
APR		12.4	34.9			.2	30.9	31.5	45.7		.4	54.3	1242
MAY		23.7	43.0			.6	38.1	29.7	45.5			52.2	1095
JUN		30.1	59.2			.3	52.4	22.9	42.0		.1	46.8	1246
JUL		51.4	70.9			.1	62.8	16.0	27.7			32.0	1294
AUG		44.4	68.7				60.8	26.3	37.3			44.1	1295
SEP		25.2	67.2			.1	50.5	33.5	48.3			55.8	1060
OCT		6.2	44.5				39.5	43.9	61.8			64.7	1092
NOV		2.8	37.7				33.4	46.6	61.0			71.2	1250
DEC		3.8	41.5		.2		36.9	49.8	61.3		.1	73.3	1295
TOTALS		18.4	49.1	.2	.1	.1	43.6	35.3	49.2		.1	56.0	12733

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4

## WEATHER CONDITIONS

23517

JACKSONVILLE, FLORIDA

73-80

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	01		6.5		.4		6.9	14.9	4.4			16.9	249
	04		7.7				7.7	19.4	7.3			23.6	246
	07	.4	9.9				6.9	29.6	10.1			35.9	249
	10	.4	10.1				10.1	21.9	28.2			47.2	249
	13	.8	6.5				6.5	6.9	12.5			19.9	249
	16		7.3				7.3	6.9	8.9			14.9	247
	19		5.6		.4		4.0	0.5	5.6			11.7	249
	22		7.3				7.3	6.1	4.8			12.5	249
TOTALS		.2	7.5		.1		7.6	14.5	10.2			22.6	1984

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4

## WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

73-80

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01	.4	5.3				5.3	5.8	3.1		.4	11.5	226
	04		6.6				6.6	17.7	5.8		.4	22.1	226
	07	.9	7.5				7.5	32.3	22.6		.4	49.1	226
	10		8.0				8.0	16.2	29.6		.4	44.7	226
	13	.4	8.0		.4		8.4	7.1	12.9			19.0	226
	16	.4	8.8		.4		9.3	7.5	9.7		.4	16.8	226
	19		6.2				6.2	6.6	6.2		.9	13.3	226
	22		4.0				4.0	5.8	2.2		.4	8.0	226
TOTALS		.3	6.3		.1		6.9	12.8	11.5		.4	23.1	1008

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## WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

73-91

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAR	01	.4	4.0				4.0	1.1	2.4			10.1	24
	04	.8	5.2				5.2	12.1	2.8			13.3	24
	07	.8	6.9				6.5	13.5	19.9		.4	46.5	24
	10	1.2	6.5				6.5	12.5	19.4			30.2	24
	13	1.2	5.6		.4		5.0	4.0	11.3			14.9	24
	16	1.2	7.7		.4		8.1	2.8	6.0			8.5	24
	19	1.2	6.5		.4		6.9	5.6	10.1			15.3	24
	22	.4	4.4				4.4	4.0	2.4			5.0	24
TOTALS		.9	5.9		.2		6.0	10.3	9.3		.1	10.1	1980

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## WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

73-90

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01	1.3	4.2				4.2	2.5	2.1			4.2	240
	04	1.7	2.9				2.9	9.2	3.3			10.8	240
	07	1.3	5.4				5.4	27.5	30.8			47.5	240
	10	.8	3.8				3.8	2.9	17.9			20.8	240
	13	.4	2.5				2.5	1.7	6.3			7.9	240
	16	1.3	4.2				4.2	.4	6.3			6.7	240
	19	2.1	4.2				4.2	.8	11.7			12.5	240
	22		3.3				3.3	.4				.4	240
TOTALS		1.1	3.1				3.8	5.7	9.8			13.8	1920

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4

## WEATHER CONDITIONS

STATION

JACKSONVILLE, FLORIDA

73-96

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01	.8	2.0				2.0	4.0	2.4			6.0	249
	04	.8	3.2				3.2	11.3	5.2			14.5	249
	07	.8	5.6				5.6	35.9	17.5			59.3	249
	10	.8	4.8				4.8	3.6	27.8			29.8	249
	13	2.4	4.8				4.8	1.2	17.3			18.1	249
	16	11.3	10.9				10.9	.8	16.9			17.3	249
	19	5.3	9.3				9.3	2.4	19.0			21.0	249
	22	7.2	4.0				4.0	.4	2.0			2.0	249
TOTALS		3.7	5.6				5.6	7.6	16.0			21.0	1964

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## WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

73-31

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01	.2	2.9				2.9	1.3	5.0			6.3	240
	04	1.3	2.9				2.9	9.6	10.4			16.3	240
	07	.9	3.3				3.3	23.3	40.0			52.5	240
	10	1.3	4.2				4.2	3.3	27.9			29.6	240
	13	3.3	5.4				5.4	.6	23.3			24.2	240
	16	12.9	12.5				12.5	.8	20.0			30.4	240
	19	11.7	15.6				15.6	1.7	22.5			23.6	240
	22	1.3	9.2				9.2	.6	5.0			6.7	240
TOTALS		4.5	7.0				7.0	5.2	19.5			22.5	1920

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## WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

1971-80

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	01	.4	.6				.6	2.0	4.4			5.6	240
	04	.8	1.2				1.2	5.6	6.0			10.9	240
	07		1.0				1.6	10.4	39.1			48.8	240
	10	.4	4.0				4.0	.8	27.4			27.4	240
	13	6.5	8.9				8.9	.4	23.4			23.6	240
	16	15.3	14.5				14.5		17.7			17.7	240
	19	10.9	12.5				12.5	.4	19.0			19.4	240
	22		4.0				4.0		3.2			3.2	240
TOTALS		4.3	5.0				5.9	3.6	17.5			19.6	1980

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4

## WEATHER CONDITIONS

1967 JACKSONVILLE, FLORIDA

77-45

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG.	01	.8	.8				.8	1.6	4.8			5.2	243
	04	.8	1.6				1.6	7.7	9.3			12.1	249
	07		1.6				1.6	30.2	31.9			49.6	248
	1	.4	4.0				4.0	1.2	22.6			23.4	249
	14	6.5	8.1				8.1	.4	17.3			17.7	249
	18	13.7	12.5				12.5		9.7			9.7	244
	19	7.7	11.7				11.7	.4	13.3			13.3	249
	22	3.6	3.6				3.6	.4	2.4			2.4	243
TOTALS		4.2	5.5				5.5	5.2	13.9			16.7	1984

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4

## WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

73-80

FED

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		5.4				5.4	3.8	5.0			7.9	240
	04	.4	2.9				2.9	10.4	9.6			17.1	240
	07	.6	4.2				4.2	31.3	39.6			56.3	240
	10	.9	6.7				6.7	3.8	29.6			31.3	240
	13	5.0	11.3				11.3	.4	19.2			19.2	240
	16	7.1	10.4				10.4		18.3			18.3	240
	19	7.1	11.7				11.7	1.3	18.3			18.8	240
	22	2.9	10.4				10.4	.4	5.0			5.4	240
TOTALS		3.0	7.9				7.9	7.3	18.1			21.8	1920

NAVWEASERVCOM



4

## WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

73-40

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		2.0				2.0	7.5	5.1			17.1	249
	04		1.6				1.6	15.5	12.9			24.2	249
	07	.4	4.4				4.8	41.9	38.7			66.9	249
	10		2.8				2.8	6.0	32.7		.4	36.3	249
	13	.4	4.4				4.8	1.6	13.7			15.3	249
	16	.4	5.5				6.5	3.2	15.9			13.7	249
	19	.4	6.0				6.0	2.4	6.0			5.5	249
	22	.4	2.8				2.8	2.0	2.4			4.4	249
TOTALS		.3	3.9				3.9	10.0	15.7		.1	22.7	1984

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## WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

73-40

N.Y.

STATION

STATION NAME

YEARS

**NORTH**

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		4.6				4.6	16.7	7.9			29.8	240
	04		5.0				5.0	21.3	10.0			26.3	240
	07		5.4				5.4	45.4	27.1			61.7	240
	1		3.8				3.8	12.1	33.3			44.2	240
	17		3.3				3.3	4.6	10.8			15.0	240
	18	.8	5.2				5.0	3.3	6.6			11.7	240
	19	.8	4.2				4.2	4.2	5.4			9.2	240
	22		5.4				5.4	7.9	3.3			10.0	240
TOTALS		.2	4.9				4.6	14.6	13.3			24.9	1920

4

## WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

73-90

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		9.3				9.3	16.5	4.6			19.6	249
	04	.4	10.1				10.1	24.6	4.7			27.8	249
	07		7.7				7.7	32.7	17.7			45.2	249
	1		5.6				5.6	21.0	23.2			45.6	249
	11	.4	7.7				7.7	2.9	13.3		.4	21.5	249
	14	.8	6.5				6.5	4.8	13.7			18.5	249
	17	.8	7.7				7.7	6.5	5.5			11.3	249
	22		7.3				7.3	8.9	4.5			12.9	249
TOTALS		.3	7.7				7.7	15.5	11.5		.1	25.4	1989

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## WEATHER CONDITIONS

STATION 7 JACKSONVILLE, FLORIDA 73-80 ALL  
 STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	ALL	.2	7.5		.1		7.6	14.5	10.2			22.8	1984
FEB		.3	6.6		.1		6.9	12.8	11.5		.4	23.1	1984
MAR		.9	5.9		.2		6.6	10.3	9.3		.1	18.1	1984
APR		1.1	3.3				3.8	5.7	9.4			13.8	1927
MAY		3.7	5.6				5.6	7.6	16.6			21.0	1984
JUN		4.5	7.0				7.0	5.2	19.5			22.5	1927
JUL		4.3	5.9				5.9	3.6	17.5			19.6	1984
AUG		4.2	5.5				5.5	5.2	13.9			16.7	1984
SEP		3.3	7.9				7.9	7.3	18.1			21.8	1927
OCT		.3	3.4				3.9	1.0	15.7		.1	22.7	1984
NOV		.2	4.1				4.5	14.6	13.3			24.9	1927
DEC		.3	7.7				7.7	15.5	11.5		.1	25.4	1984
TOTALS		1.9	6.5		.0		6.2	9.4	13.9		.1	21.0	23776

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA YEAR JANUARY 1973-DECEMBER 1982 MONTH JANUARY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	WIND SPEED KNOTS
N	1.4		1.2						16.3	6.4	16.0		52.7
NNE	7.5	1.7	1.4						15.4	1.7	12.0		57.7
NE	7.5		.6					1.2	17.3	4.9	14.8		60.7
ENE		2.3							5.5	4.7	4.3		74.4
E	7.7	2.7							15.7	2.1	3.9		72.7
ESE	5.1								5.2	2.0	14.3		75.7
SE	7.7								11.5	7.7	5.9		73.1
SSE	7.9								5.1	2.5	4.9		74.5
S	5.7	2.0	.5						7.0		4.5		77.4
SSW	5.1	4.0							4.8	2.4	7.4		55.7
SW	5.7	2.6						2.5	5.3	6.6	5.5		77.5
WSW	5.7	2.6						.9	7.5	4.3	4.3		77.5
W	7.7	1.7				.5			6.8	3.9	4.5		73.7
WNW	5.7		.7						2.7	.7	5.7		75.7
NW	4.1	2.5	2.5			.8			4.1	1.7	1.7		74.5
NNW	.5		.8						14.3	4.7	11.1		71.4
VARIABLE	1.4		.8						12.8	13.2	11.9		52.1
CALM													
TOTAL	1.4	73	23			2		4	210	74	172		1442
% TOTAL	5.7	1.2	1.2			.1		.2	13.6	3.9	8.7		72.7

TOTAL NUMBER OF OBSERVATIONS 1,984

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA JANUARY 1973-DECEMBER 1982 FEBRUARY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SALT HAZE	BLUING IN	...
N	4.2	.6	3.0						13.5	2.4	15.8		62.4
NNE	3.1	.6	7.5						18.1	3.1	13.0		63.4
NE	14.4		.2						15.5	4.1	15.8		54.6
ENE	1.1		1.3						4.1		7.3		80.0
E									5.5		13.6		79.7
ESE		2.0	2.0						4.1	4.1	12.2		71.6
SE	6.1	2.3							4.1	4.5	4.1		72.7
SSE	7.4								5.6	1.4	7.0		37.7
S	4.5	3.9	.7					2.7	7.2	5.3	4.2		73.7
SSW	7.1	4.6						1.2	17.7	2.4	4.3		73.2
SW		4.0							3.2	4.1	8.1		51.7
WSW	.7	1.2	.6						5.6	6.2	5.7		80.1
W	1.2	1.0	.6						2.5	1.9	10.3		82.7
WNW	7.7								2.5	1.7	4.1		78.7
NW	1.0		3.0			1.0			4.1	4.1	5.1		80.8
NNW	3.5	.9	2.7			.9		.9	10.0	4.5	15.5		65.2
VARIABLE													
CALM	1.1								20.2	12.4	3.1		60.8
TOTAL	85	25	33			2		5	163	39	180		1374
% TOTAL	3.0	1.4	1.8			.1		.3	7.0	3.8	10.0		73.9

TOTAL NUMBER OF OBSERVATIONS 1,813

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

JANUARY 1971-DECEMBER 1982

MARCH ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLUISH SMOG	RELATIVE HUMIDITY 24H
N	4.3	2.9	2.3					1.0	12.7	7.8	17.6		42.7
NNE	4.6	1.9	.9						14.5	3.7	14.8		55.7
NE	4.1		1.3						16.3	1.7	7.2		73.7
ENE	2.3	2.3						2.1	4.6	3.4	9.2		79.7
E	5.5	2.4	.9					.9	6.2	2.8	13.3		77.7
ESE	2.4	.6							1.0	.8	5.5		88.7
SE	1.0	3.1						2.4	7.1	1.5	5.3		81.1
SSE	2.0	1.4						2.1	2.9	.7	7.1		87.7
S	3.2	2.6						.9	3.5	4.3	17.3		81.5
SSW	3.2	3.2						1.7	3.7	3.5	6.1		76.7
SW	1.3	4.7	.7					1.3	4.7	3.4	4.7		87.8
WSW	1.3	3.1							1.7	4.3	8.7		82.7
W	1.6	2.4							7.2	2.4	8.7		85.6
WNW		2.2	1.1		1.1	2.2		1.1	9.0	4.5	17.1		71.9
NW	1.4	5.5						1.4	1.4	2.7	2.7		87.7
NNW	1.5	1.4	2.3						1.0	2.0	5.6		77.5
VARIABLE													
CALM	1.4	2.7							17.8	12.3	5.5		41.6
TOTAL	74	53	9		1	2		14	136	69	175		1007
% TOTAL	2.7	2.7	.3		.1	.1		.9	6.9	3.5	8.8		75.7

TOTAL NUMBER OF OBSERVATIONS 1,924

DATE \_\_\_\_\_ FILE NO. \_\_\_\_\_ CLASSIFICATION \_\_\_\_\_  
BY \_\_\_\_\_ REASON \_\_\_\_\_

TOTAL NUMBER OF OBSERVATIONS

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

PERIOD JAN - MAY 1977 - OCTOBER 1992

NAVY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMALL HAZE	EXTENDING HORIZON	OTHER
N	1.6	4.7						4.7	0.4	7.2	28.1		53.1
NNE		4.7						1.6	0.3	12.1	17.2		44.1
NE	1.1	1.7						1.2	1.4	2.1	23.2		54.7
ENE		1.6						7.7	1.6		22.9		70.1
E		0.2						8.7	2.1	3.1	17.7		71.9
ESE	1.7	2.7						4.1	4.1	1.2	14.7		78.3
SE	1.6	7.3						1.0	4.0	.7	6.9		80.6
SSE	1.7	1.2						4.3	1.1	1.2	11.5		80.1
S	1.6	4.7						3.3	1.6	2.4	13.7		77.9
SSW		3.7						3.9	5.7	2.5	17.5		77.1
SW		3.9						4.1	4.7	1.3	10.7		73.7
WSW		.1						1.4	1.1	4.0	13.6		75.1
W		3.2	.5					1.1	4.5	4.6	15.6		76.7
WNW	1.6	3.6						1.4	1.5	1.8	16.4		76.4
NW		4.6						7.7	2.7	7.3	26.9		43.4
NNW		.1						.1	1.2	10.7	27.8		64.1
VARIABLE													
CALM		1.6							1.4	7.7	15.4		73.5
TOTAL	1	13	1					77	24	66	711		1472
% TOTAL	.6	4.7	.1					3.7	4.2	3.3	15.7		74.7

TOTAL NUMBER OF OBSERVATIONS

1,472

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA JANUARY 1973-DECEMBER 1982 MONTH ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SATIN HAZE	RELATIVE HUMIDITY
N	7.0	4.5	1.0					6.1	9.1	6.1	33.3	47.0
NNE	1.1	5.6	1.1					2.2	5.6	2.2	29.3	50.0
NE	2.1	5.3	1.1					3.2	1.1	2.1	27.7	61.7
ENE		4.1						7.1	2.0	1.0	25.5	62.2
E	1.0	5.3						4.8	1.4	.5	17.9	73.9
ESE		4.3						5.0	1.4		18.8	75.7
SE	1.0	4.0	1.0					4.0	1.0	1.0	14.9	76.0
SSE	.4	6.3						3.6		.9	12.6	79.3
S	3.7	4.4	.6					5.0	.6		12.2	77.0
SSW	1.0	4.0						2.7	2.7		9.7	73.0
SW		3.7						4.7	2.9	1.2	15.9	75.7
WSW	.6	3.8						1.9	4.4	2.5	20.1	72.3
W	3.0	3.6						2.4	5.9	3.0	18.3	71.0
WNW		4.3	1.7					4.8	5.0	3.3	26.7	65.5
NW		15.4	4.5					15.4	18.2	6.2	20.5	43.2
NNW		10.9						8.7	8.7	8.7	26.1	50.0
VARIABLE												
CALM		1.4						2.7	2.7	4.8	8.6	72.3
TOTAL	21	103	9					86	63	37	356	1354
% TOTAL	1.2	7.4	.5					4.5	3.3	1.9	18.6	70.5

TOTAL NUMBER OF OBSERVATIONS 1,920

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JACKSONVILLE, FLA. USA JANUARY 1973-DECEMBER 1992 JULY ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND Fog	SMOKE HAZE	BLOWING SMOKE	BLowing SMOKE	WIND DIRECTION
N		6.1						9.1	9.1	2.3	31.8			64.5
NNE		7.1						2.5	6.2		25.7			55.5
NE	1.1	1.4						1.4	1.4		21.4			77.1
ENE		1.3						3.9			17.5			80.0
E		1.3						6.1	1.0	1.2	21.7			68.3
ESE	1.1	4.9						6.7	1.2	1.6	12.2			79.9
SE	1.1	2.7						1.4	1.9	1.9	9.9			84.7
SSE	1.1	7.3						4.4		1.7	7.3			87.6
S	1.1	6.5						3.1	1.5	1.9	13.4			77.4
SSW	2.1	6.9						3.2	1.5	1.5	6.3			81.8
SW	1.1	7.3	1.6					2.1	2.8	1.7	13.3			77.8
WSW	1.1	4.5						3.2	1.8	4.5	24.2			67.3
W	1.2	1.3						1.2	3.0	1.2	25.7			68.9
WNW	1.3	9.6						11.5	1.9	5.3	18.2			65.4
NW		6.8						5.9	11.8	8.2	29.4			78.2
NNW		15.4						15.4	1.7		30.9			46.1
VARIABLE														
CALM	1.1	1.3						2.2	1.1	1.1	14.1			75.2
TOTAL	19	98	1					86	35	36	340			1455
% TOTAL	1.1	4.9	1.1					4.3	1.8	1.8	17.1			73.3

TOTAL NUMBER OF OBSERVATIONS 1,984

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA JANUARY 1973-DECEMBER 1982 MONTH ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAUL SMALL WALL	THUNDER	FOG	ICE FOG GROUND FOG	SALT WATER WAVE	BLUISH WAVE	WIND WAVE
N		1.5						2.7	4.2	6.8	28.8		56.2
NNE	1.4	3.7						6.4	7.5	6.5	24.3		58.9
NE	1.1	6.5						6.5	1.1	2.2	19.4		66.7
ENE	0.1	6.3						2.3	3.1	1.6	16.4		74.2
E	0.1	4.6						2.0	0.4	0.4	12.5		81.7
ESE	0.1	2.5						2.3		0.6	7.0		86.4
SE	0.1	3.8						3.8		0.4	7.5		85.7
SSE	1.4	4.2						5.6		0.7	7.7		83.1
S	1.0	2.1						2.7	0.5	1.1	9.8		85.6
SSW	0.1	6.5						7.3	3.2	0.7	9.7		77.4
SW	1.7	2.6						6.9	3.4	2.0	13.4		75.0
WSW	0.1	4.2						4.0	1.6	5.6	16.1		71.4
W	4.0	0.9						6.3	4.6	1.2	15.2		62.3
WNW	4.0	7.1						4.8	4.8		9.5		75.7
NW		0.2						3.4	6.6	13.8	24.1		52.6
NNW		2.3						5.6	13.9	5.6	16.7		46.7
VARIABLE													
CALM		1.7								15.2	15.7		74.2
TOTAL	23	86						83	45	59	269		1515
% TOTAL	1.2	4.3						4.2	2.3	3.0	13.6		76.4

TOTAL NUMBER OF OBSERVATIONS

1,524

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100

SECRET

ALL

2. TOTAL:

1,923

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JACKSONVILLE, FLORIDA

JANUARY 1973-OCTOBER 1992

OCTOBER

ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLUSHY SHOWERS	ICE GRAINS PELLETS SHOWERS	HALE STALL ICE	THUNDER	FOG	ICE FOG FOG/RAIN FOG	SMOG HAZE	BLIND FOG	OTHER
N	1.3		0.7						1.3	3.5	24.9		61.2
NNE	1.4	2.1	0.7						5.2	2.4	17.5		71.6
NE	0.1	5.9							3.1	0.7	13.6	0.4	79.4
ENE	1.7	2.4	0.9					0.9	1.7		5.8		56.7
E	0.1	5.3							0.3		5.4		90.0
ESE		4.2	1.4					1.4	1.4	2.6	4.2		34.9
SE		4.7						2.3			4.7		67.7
SSE	0.1							2.0	5.3	6.3	11.1		77.8
S		0.1						1.0	3.1	1.6	7.8		86.0
SSW									2.4		9.4		91.0
SW		1.0							7.8		15.0		75.0
WSW		1.3							5.6	8.3	10.2		77.9
W	0.1	1.4						0.7	4.3	4.3	6.5		68.1
WNW			1.0						0.3	9.4	7.3		79.7
NW	1.1	1.0							1.1	5.1	17.3		72.4
NNW	2.0		1.4						11.0	7.4	22.3		62.2
VARIABLE													
CALM	0.1								0.7	25.9	16.3		54.5
TOTAL	2.0	35	14					6	113	86	273	1	1473
% TOTAL	1.4	1.4	0.7					0.7	5.7	4.3	13.8	0.1	75.1

TOTAL NUMBER OF OBSERVATIONS 1,084

ALL

TOTAL NUMBER OF OBSERVATIONS 1,923

**NAYWEASERY.COM**

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA YEAR JANUARY 1973-DECEMBER 1982 MONTH DECEMBER ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SUNNY HAZE	BLUING SNOW	BLUING RAIN AND FOG
N	0.0		1.3						1.5	2.3	15.7		63.2
NNE	0.1	0.5	1.2						1.3	1.6	11.6		66.3
NE	1.0								1.1	2.5	10.9		68.9
ENE	7.0								12.7		10.3		72.4
E	7.0	2.0							8.0		4.3		84.0
ESE	1.0								3.6		6.9		84.5
SE	4.0								10.0	4.3	6.4		80.9
SSE	0.0	4.3							2.1	4.3	4.3		80.9
S	1.1	1.3	1.3					0.7	15.4	0.7	8.1		72.5
SSW	1.1								7.8	7.8	12.5		71.7
SW	0.6	3.3						1.1	7.8	5.5	3.3		74.7
WSW	3.0	1.5							6.4	3.7	6.2		77.7
W	1.0	1.8	0.6					1.2	5.5	2.5	9.2		77.6
WNW	2.4	1.6	2.4					0.8	8.8	2.4	7.2		77.6
NW	4.0	1.4	2.1					0.7	8.4	1.4	5.6		79.7
NNW	6.0		2.1						6.7	6.2	15.9		62.8
VARIABLE													
CALM	2.0	0.6	1.9						2.1	1.5	0.3		56.7
TOTAL	104	19	27					6	240	67	194		1413
% TOTAL	5.4	1.0	1.4					0.3	12.1	3.4	9.8		71.2

TOTAL NUMBER OF OBSERVATIONS

1,984

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION JACKSONVILLE, FLORIDA

JANUARY 1977-DECEMBER 1982

ALL

ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HALE SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	RELATIVE HUMIDITY	WIND SPEED
N	3.4	1.9	1.8					1.3	12.9	4.8	21.0		60.7
NNE	3.0	2.7	1.9					1.3	10.1	3.3	17.7		64.5
NE	4.3	2.9	1.7					1.1	8.0	1.4	17.9	.1	64.2
ENE	1.5	4.3	.3					2.8	3.3	1.2	14.9		75.8
E	1.4	3.9	.1					3.2	2.6	1.1	12.7		78.9
ESE	1.1	2.7	.1					2.4	2.2	.9	10.3		83.3
SE	1.1	2.7	.2					2.3	3.6	1.3	8.6		81.0
SSE	.3	3.0						2.6	2.0	1.4	6.6		83.7
S	1.3	3.2	.3					2.2	3.8	1.8	13.0		79.4
SSW	2.0	5.2	.1					2.7	5.4	2.3	8.9		76.0
SW	1.4	4.5	.3					2.6	4.5	2.9	9.7		72.7
WSW	1.2	3.7	.2					1.4	4.5	4.0	13.0		76.7
W	2.2	1.8	.3			.1		1.0	5.2	3.6	12.1		75.7
WNW	1.3	2.2	.8		.1	.2		1.4	5.2	3.4	10.2		75.1
NW	2.4	3.0	1.4			.2		1.1	7.7	4.6	10.7		73.3
NNW	3.7	2.4	1.3			.1		1.9	11.2	5.5	17.6		64.4
VARIABLE													
CALM	1.2	1.2	.4					.4	11.3	12.6	11.4		65.2
TOTAL	561	697	151		1	6		449	1413	773	3012		1 17404
% TOTAL	2.4	3.0	.6		.0	.0		1.9	6.0	3.3	12.9		.0 74.5

TOTAL NUMBER OF OBSERVATIONS

21,376

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WCCO, Federal Building  
Asheville, N. C.

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	7.0	17.0	1.0	4.0	7.0	4.0	4.0	1.0	1.0					23.7	1147	2.45	7.47	0
FEB	1.0	1.0	1.0	4.0	2.0	5.1	5.7	2.9	2.0	.1				27.7	1104	3.23	6.0	0
MAR	1.0	11.0	2.0	4.0	7.0	5.0	7.0	3.9	2.0	.0	.1			24.0	1174	2.35	11.0	0
APR	1.0	11.0	1.0	7.0	1.0	4.0	7.0	5.7	2.0					22.7	1000	2.45	6.0	0
MAY	1.0	1.0	1.0	4.0	7.0	4.0	5.0	4.0	2.0	.0	.1			21.0	1170	2.67	11.0	0
JUN	7.0	1.0	1.0	4.0	7.0	4.0	6.0	1.0	4.0	.7				20.0	1110	2.55	12.0	1.0
JUL	7.0	14.0	7.0	4.0	4.0	4.0	4.0	7.0	4.0	.0				35.0	1147	5.44	11.0	1.0
AUG	7.0	14.0	5.0	7.0	5.0	11.0	7.0	7.0	5.0	.0	.0			47.0	1170	6.00	17.0	0
SEP	7.0	14.0	3.0	7.0	4.0	6.0	6.0	6.0	4.0	1.0	.0			40.0	1140	1.00	17.0	0.10
OCT	1.0	17.0	7.0	5.0	7.0	5.0	3.0	5.0	2.0	.0	.1			26.0	1000	2.61	11.0	0.0
NOV	7.0	17.0	1.0	5.0	7.0	3.0	4.0	1.0	1.0	.1				23.0	1110	1.01	4.0	0
DEC	7.0	14.0	1.0	4.0	3.0	4.0	4.0	5.0	1.0	.1				22.0	1174	2.33	7.00	0
ANNUAL	1.0	17.0	0	7.0	7.0	5.0	5.0	4.0	5.0	.0	.1			31.1	13576	6.64		

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.	.													117			.
FEB	.	.													114			.
MAR	.	.													117			.
APR	.	.													117			.
MAY	.	.													117			.
JUN	.	.													117			.
JUL	.	.													117			.
AUG	.	.													117			.
SEP	.	.													117			.
OCT	.	.													117			.
NOV	.	.													117			.
DEC	.	.													117			.
ANNUAL	.	.													11947			.

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

STATION		STATION NAME															YEARS				
AMOUNTS (INCHES)																	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	01 2 50	2 5 5 00	5 01 10 00	10 01 20 00	20 01 50 00	OVER 50 00	MEAN	GREATEST			LEAST		
SNOWFALL	NONE	TRACE	01 04	05 14	15 24	25 34	35 44	45 64	65 104	05 54	55 25 4	25 5 50 4	OVER 50 4								
SNOW DEPTH	NONE	TRACE		2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 70	OVER 70								
JAN	.	.																			
FEB	.	.																			
MAR	.	.																			
APR	.	.																			
MAY	.	.																			
JUN	.	.																			
JUL	.	.																			
AUG	.	.																			
SEP	.	.																			
OCT	.	.																			
NOV	.	.																			
DEC	.	.																			
ANNUAL	.	.																			

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## EXTREME VALUES

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SMOS

## EXTREME VALUES

STATION	STATION NAME	YEARS

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SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

PRECIPITATION  
FROM DAILY OBSERVATIONS

STATION JACKSONVILLE, FLORIDA

45-87

YEARS

24 HOUR AMOUNTS IN INCHES  
BASED ON LESS THAN FULL MONTHS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG	SEP	OCT.	NOV	DEC	ALL MONTHS
41		1											P. FCTP DAYS
42										1.20 24	.86 29		P. FCTP DAYS
43										4.41 31			P. FCTP DAYS
44						1.08 7							P. FCTP DAYS
45				.87 21									P. FCTP DAYS
46				0.01 23									P. FCTP DAYS
47										1.75 29			P. FCTP DAYS
48							1.48 10						P. FCTP DAYS
49													
50													
51													
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54													
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99													
00													
MEAN													
S D													
TOTAL OBS													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

INCHES  
FROM DAILY OBSERVATIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

24 HOURS AMOUNT IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
4			.	.	.	.	.	.	.	.	.	.	.
5	.	.	.	.	.	.	.	.	.	.	.	.	.
6	.	.	.	.	.	.	.	.	.	.	.	.	.
7	.	.	.	.	.	.	.	.	.	.	.	.	.
8	.	TRAC	.	.	.	.	.	.	.	.	.	TRAC	.
9	.	.	TRAC	.	.	.	.	.	.	.	.	.	.
10	.	.	TRAC	.	.	.	.	.	.	.	.	.	TRAC
11	TRAC	TRAC	.	.	.	.	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.	.	.	.	.	.	.
13	.	.	.	.	.	.	.	.	.	.	.	TRAC	TRAC
14	.	.	.	.	.	.	.	.	.	.	.	.	.
15	.	.	.	.	.	.	.	.	.	.	.	.	.
16	.	TRAC	.	.	.	.	.	.	.	.	.	.	.
17	TRAC	.	.	.	.	.	.	.	.	.	.	.	TRAC
18	.	.	.	.	.	.	.	.	.	.	.	.	.
19	TRAC	TRAC	.	.	.	.	.	.	.	.	.	.	.
20	.	.	.	.	.	.	.	.	.	.	.	.	.
21	.	.	.	.	.	.	.	.	.	.	.	.	.
22	.	.	.	.	.	.	.	.	.	.	.	.	.
23	.	.	.	.	.	.	.	.	.	.	.	.	.
24	.	.	.	.	.	.	.	.	.	.	.	.	.
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

24 HOURS  
FROM DAILY OBSERVATIONS

STATION JACKSONVILLE, FLORIDA 45-47 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1	•	•	•	•	•	•	•	•	•	•	•	•	•
2	•	•	•	•	•	•	•	•	•	•	•	•	•
3	•	•	•	•	•	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•	•	•	•	•	•
5	•	•	•	•	•	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•	•	•	•	•	•
7	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•
9	•	•	•	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•	•	•	•
11	•	•	•	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•	•	•	•	•	•	•
14	•	•	•	•	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•	•	•	•
17	•	•	•	•	•	•	•	•	•	•	•	•	•
18	•	•	•	•	•	•	•	•	•	•	•	•	•
19	•	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•	•
21	•	•	•	•	•	•	•	•	•	•	•	•	•
22	•	•	•	•	•	•	•	•	•	•	•	•	•
23	•	•	•	•	•	•	•	•	•	•	•	•	•
24	•	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•
26	•	•	•	•	•	•	•	•	•	•	•	•	•
27	•	•	•	•	•	•	•	•	•	•	•	•	•
28	•	•	•	•	•	•	•	•	•	•	•	•	•
29	•	•	•	•	•	•	•	•	•	•	•	•	•
30	•	•	•	•	•	•	•	•	•	•	•	•	•
31	•	•	•	•	•	•	•	•	•	•	•	•	•
MEAN	1.14	1.04	1.17	1.09	1.17	1.16	1.14	1.17	1.18	1.11	1.14	1.17	1.15
S.D.	.003	.002	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003	.003
TOTAL OBS	114	104	117	109	117	116	114	117	118	111	114	117	115

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL  
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, FLORIDA STATION NAME ASHEVILLE YEARS 1951-52

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46		1											SNOWFALL DAYS
47										1			SNOWFALL DAYS
48						1							SNOWFALL DAYS
49				1									SNOWFALL DAYS
50										1			SNOWFALL DAYS
51						1			1				SNOWFALL DAYS
52						1			1				SNOWFALL DAYS
53				1									SNOWFALL DAYS
54										1			SNOWFALL DAYS
55							1						SNOWFALL DAYS
56													
57													
58													
59													
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94													
95													
96													
97													
98													
99													
00													
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION JACKSONVILLE, FLORIDA 49-92 YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													
51													
52													
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69													
70													
71													
72													
73													
74													
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNO DEPTH  
(FROM DAILY OBSERVATIONS)

STATION JACKSONVILLE, FLORIDA

45 42-41

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
76													
77	77 AC												77 AC
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
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## EXTREME VALUES

FROM DAILY OBSERVATIONS

RECEIVED  
JAN 10 1963

[illegible]

## SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY EXTREME AMOUNTS

JACKSONVILLE, FL 32204

1-46-1947

STATION NAME

YEARS

JANUARY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	7.12	180	1959			
2	1.73	44	1976			
3	0.94	24	1977			
4	0.5	13	1967			
5	0.75	19	1971			
6	1.04	26	197			
7	0.6	15	1959			
8	0.53	14	1950			
9	0.1	2.5	1973			
10	0.7	18	1977			
11	0.94	24	1954			
12	1.06	27	1970			
13	1.03	26	1959			
14	0.61	16	1982			
15	0.76	19	197			
16	0.75	19	1959			
17	1.41	36	1954			
18	0.86	22	1955			
19	1.05	27	1972			
20	1.40	36	1949			
21	0.93	24	1970			
22	1.00	25	1946			
23	1.01	26	1955			
24	0.02	0.5	1949			
25	0.91	23	1965			
26	1.70	43	1976			
27	0.87	22	1967			
28	0.73	19	1973			
29	0.59	15	196			
30	0.56	14	1960			
31	1.86	47	1947			
Monthly	7.10	180	1955			

FEBRUARY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.1	28	1947			
2	1.40	36	1959			
3	1.42	36	1970			
4	0.52	13	196			
5	0.74	19	1964			
6	1.84	47	1947			
7	0.18	4.7	1950			
8	1.13	29	1955			
9	0.05	1.3	197			
10	0.53	14	1976			
11	1.72	44	1971			
12	1.15	29	1967			
13	0.76	19	1965			
14	0.65	17	1967			
15	2.35	60	1960			
16	0.29	7.4	1955			
17	0.42	11	1970			
18	2.37	60	1981			
19	0.69	18	197			
20	0.78	20	1947			
21	0.40	10	1957			
22	0.69	18	1950			
23	1.02	26	1965			
24	1.27	32	196			
25	1.70	43	1960			
26	1.21	31	1950			
27	0.15	3.8	1950			
28	1.50	38	1966			
29	0.03	0.8	1967			
30						
31						
Monthly	2.49	63	1971			

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

ASHEVILLE, FLORIDA

1945-1972

STATION

STATION NAME

YEARS

MARCH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.67		17 1947			
2	1.12		29 1958			1958
3	1.77		27 1974			
4	1.77		21 1956			1977
5	1.41		21 1941			
6	1.45		27 1947			
7	1.10		17 1957			
8	1.64		11 1973			
9	1.32		22 1944			
10	1.10		25 1943			
11	1.47		27 1957			
12	1.41		16 1951			
13	1.55		17 1977			
14	1.00		27 1947			
15	1.55		15 1950			
16	1.11		13 1958			
17	1.47		22 1960			
18	1.77		20 1977			
19	1.74		25 1947			
20	1.77		23 1950			
21	1.57		26 1957			
22	1.42		16 1953			
23	1.47		26 1976			
24	1.80		22 1957			
25	1.47		27 1973			
26	1.74		25 1971			1958
27	1.24		21 1948			
28	1.44		12 1977			1957
29	1.60		41 1975			
30	1.70		25 1971			
31	1.47		28 1948			
Monthly	1.44	173	1977			1957

APRIL

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.28		32 1981			
2	1.44		37 1967			
3	1.77		27 1977			
4	1.74		31 1948			
5	1.40		36 1973			
6	1.48		43 1957			
7	1.28		33 1957			
8	1.15		29 1975			
9	1.60		25 1961			
10	1.11		26 1958			
11	2.02		51 1970			
12	2.08		51 1957			
13	2.43		62 1955			
14	2.11		54 1947			
15	1.03		20 1953			
16	1.17		30 1960			
17	1.15		29 1945			
18	0.74		6 1957			
19	1.10		30 1950			
20	0.13		4 1980			1958
21	1.74		19 1975			
22	0.63		13 1958			
23	1.10		21 1977			
24	0.77		20 1954			
25	1.32		34 1970			
26	0.49		12 1967			
27	0.71		18 1968			1960
28	2.01		51 1964			
29	1.20		30 1972			
30	1.72		44 1971			
31						
Monthly	2.43	62	1955			1950

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

JACKSONVILLE, FLORIDA

1945-1992

STATION

STATION NAME

YEARS

MAY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.1	29	1964			
2	0.72	18	1964			
3	0.83	21	1978			
4	0.22	6	1978			
5	1.5	41	1963			
6	0.34	9	1979			
7	1.67	43	1979			
8	0.72	18	1966			
9	1.1	28	1966			
10	1.1	28	1979			
11	1.79	45	1967			
12	1.71	43	1974			
13	0.5	13	1967			
14	0.21	5	1969			
15	0.2	5	1976			
16	1.11	28	1961			
17	1.79	45	1965			
18	0.79	20	1946			
19	1.07	27	1972			
20	0.2	5	1979			
21	0.5	13	1969			
22	1.71	43	1976			
23	1.1	28	1968			
24	0.9	23	1972			
25	1.07	27	1972	T	T	196
26	0.2	5	1961			
27	0.3	8	1975			
28	0.7	18	1967			
29	1.43	36	1975			
30	0.57	15	1960			
31	0.3	8	1966			
Monthly	1.79	45	1979	T	T	196

JUNE

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.52	13	1977			
2	0.7	18	1966			
3	1.75	44	1978			
4	0.79	20	1976			
5	1.75	44	1969			
6	0.1	3	1966			
7	1.66	42	1972			
8	0.66	17	1977			
9	1.45	37	1977			
10	1.47	37	1978			
11	0.34	9	1968			
12	1.74	44	1978			
13	1.22	31	1962			
14	0.55	14	1961			
15	0.79	20	1967			
16	2.45	62	1961			
17	1.73	44	1967			
18	1.05	27	1977			
19	0.37	9	1972			
20	1.7	43	1977			
21	1.14	29	1967			
22	1.7	43	1972			
23	2.2	56	1976			
24	3.41	87	1967			
25	1.1	28	1968			
26	0.99	25	1974			
27	0.64	16	1972			
28	1.72	44	1978			
29	1.6	41	1966			
30	1.45	37	1966			
31						
Monthly	3.41	87	1967			

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION: 101010 FL 101010

1940-1970

STATION NAME: ASHEVILLE

YEARS

JULY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.00	25	1940			
2	1.00	25	1940			
3	1.00	25	1940			
4	1.00	25	1940			
5	1.00	25	1940			
6	1.00	25	1940			
7	1.00	25	1940			
8	1.00	25	1940			
9	1.00	25	1940			
10	1.00	25	1940			
11	1.00	25	1940			
12	1.00	25	1940			
13	1.00	25	1940			
14	1.00	25	1940			
15	1.00	25	1940			
16	1.00	25	1940			
17	1.00	25	1940			
18	1.00	25	1940			
19	1.00	25	1940			
20	1.00	25	1940			
21	1.00	25	1940			
22	1.00	25	1940			
23	1.00	25	1940			
24	1.00	25	1940			
25	1.00	25	1940			
26	1.00	25	1940			
27	1.00	25	1940			
28	1.00	25	1940			
29	1.00	25	1940			
30	1.00	25	1940			
31	1.00	25	1940			

JULY

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.00	25	1940			
2	1.00	25	1940			
3	1.00	25	1940			
4	1.00	25	1940			
5	1.00	25	1940			
6	1.00	25	1940			
7	1.00	25	1940			
8	1.00	25	1940			
9	1.00	25	1940			
10	1.00	25	1940			
11	1.00	25	1940			
12	1.00	25	1940			
13	1.00	25	1940			
14	1.00	25	1940			
15	1.00	25	1940			
16	1.00	25	1940			
17	1.00	25	1940			
18	1.00	25	1940			
19	1.00	25	1940			
20	1.00	25	1940			
21	1.00	25	1940			
22	1.00	25	1940			
23	1.00	25	1940			
24	1.00	25	1940			
25	1.00	25	1940			
26	1.00	25	1940			
27	1.00	25	1940			
28	1.00	25	1940			
29	1.00	25	1940			
30	1.00	25	1940			
31	1.00	25	1940			
Monthly	1.00	25	1940			

\* ALSO ON EARLIER YEARS

1 - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

JACKSONVILLE, FLORIDA

1947-1956

STATION

STATION NAME

STATION

PERIOD

PERIOD

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.1		47 1947			
2	1.1		47 1947			
3	1.1		47 1947			
4	1.1		47 1947			
5	1.1		47 1947			
6	1.1		47 1947			
7	1.1		47 1947			
8	1.1		47 1947			
9	1.1		47 1947			
10	1.1		47 1947			
11	1.1		47 1947			
12	1.1		47 1947			
13	1.1		47 1947			
14	1.1		47 1947			
15	1.1		47 1947			
16	1.1		47 1947			
17	1.1		47 1947			
18	1.1		47 1947			
19	1.1		47 1947			
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24	1.1		47 1947			
25	1.1		47 1947			
26	1.1		47 1947			
27	1.1		47 1947			
28	1.1		47 1947			
29	1.1		47 1947			
30	1.1		47 1947			
31	1.1		47 1947			
Monthly	1.1		47 1947			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.1		47 1947			
2	1.1		47 1947			
3	1.1		47 1947			
4	1.1		47 1947			
5	1.1		47 1947			
6	1.1		47 1947			
7	1.1		47 1947			
8	1.1		47 1947			
9	1.1		47 1947			
10	1.1		47 1947			
11	1.1		47 1947			
12	1.1		47 1947			
13	1.1		47 1947			
14	1.1		47 1947			
15	1.1		47 1947			
16	1.1		47 1947			
17	1.1		47 1947			
18	1.1		47 1947			
19	1.1		47 1947			
20	1.1		47 1947			
21	1.1		47 1947			
22	1.1		47 1947			
23	1.1		47 1947			
24	1.1		47 1947			
25	1.1		47 1947			
26	1.1		47 1947			
27	1.1		47 1947			
28	1.1		47 1947			
29	1.1		47 1947			
30	1.1		47 1947			
31	1.1		47 1947			
Monthly	1.1		47 1947			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

## DAILY EXTREME AMOUNTS

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (A), 10<sup>7</sup> cells/ml (B), 10<sup>8</sup> cells/ml (C), and 10<sup>9</sup> cells/ml (D). The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (A), 10<sup>7</sup> cells/ml (B), 10<sup>8</sup> cells/ml (C), and 10<sup>9</sup> cells/ml (D). The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (A), 10<sup>7</sup> cells/ml (B), 10<sup>8</sup> cells/ml (C), and 10<sup>9</sup> cells/ml (D). The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (A), 10<sup>7</sup> cells/ml (B), 10<sup>8</sup> cells/ml (C), and 10<sup>9</sup> cells/ml (D).

14-00000

VEHS

1 2 3 4 5

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**Figure 1**

CROSS SECTION		SNOWFALL GREAT LAKES		
STATION	DATE	INCHES	WIND	DATE
1	12	1.5		
2	15	1.5		
3	17	1.5		
4	18	1.5		
5	19	1.5		
6	20	1.5		
7	21	1.5		
8	22	1.5		
9	23	1.5		
10	24	1.5		
11	25	1.5		
12	26	1.5		
13	27	1.5		
14	28	1.5		
15	29	1.5		
16	30	1.5		
17	31	1.5		
18	1	1.5		
19	2	1.5		
20	3	1.5		
21	4	1.5		
22	5	1.5		
23	6	1.5		
24	7	1.5		
25	8	1.5		
26	9	1.5		
27	10	1.5		
28	11	1.5		
29	12	1.5		
30	13	1.5		
31	14	1.5		
32	15	1.5		
33	16	1.5		
34	17	1.5		
35	18	1.5		
36	19	1.5		
37	20	1.5		
38	21	1.5		
39	22	1.5		
40	23	1.5		
41	24	1.5		
42	25	1.5		
43	26	1.5		
44	27	1.5		
45	28	1.5		
46	29	1.5		
47	30	1.5		
48	31	1.5		
49	1	1.5		
50	2	1.5		
51	3	1.5		
52	4	1.5		
53	5	1.5		
54	6	1.5		
55	7	1.5		
56	8	1.5		
57	9	1.5		
58	10	1.5		
59	11	1.5		
60	12	1.5		
61	13	1.5		
62	14	1.5		
63	15	1.5		
64	16	1.5		
65	17	1.5		
66	18	1.5		
67	19	1.5		
68	20	1.5		
69	21	1.5		
70	22	1.5		
71	23	1.5		
72	24	1.5		
73	25	1.5		
74	26	1.5		
75	27	1.5		
76	28	1.5		
77	29	1.5		
78	30	1.5		
79	31	1.5		
80	1	1.5		
81	2	1.5		
82	3	1.5		
83	4	1.5		
84	5	1.5		
85	6	1.5		
86	7	1.5		
87	8	1.5		
88	9	1.5		
89	10	1.5		
90	11	1.5		
91	12	1.5		
92	13	1.5		
93	14	1.5		
94	15	1.5		
95	16	1.5		
96	17	1.5		
97	18	1.5		
98	19	1.5		
99	20	1.5		
100	21	1.5		
101	22	1.5		
102	23	1.5		
103	24	1.5		
104	25	1.5		
105	26	1.5		
106	27	1.5		
107	28	1.5		
108	29	1.5		
109	30	1.5		
110	31	1.5		
111	1	1.5		
112	2	1.5		
113	3	1.5		
114	4	1.5		
115	5	1.5		</

DAY	PRECIPITATION GREATEST		DATE
	INCHES	MM.	
1	1.74	44	1897
2	1.47	37	1891
3	1.11	28	1897
4	1.74	44	1897
5	1.11	28	1897
6	1.11	28	1897
7	1.11	28	1897
8	1.47	37	1897
9	1.04	26	1897
10	1.11	28	1897
11	1.11	28	1897
12	1.11	28	1897
13	1.11	28	1897
14	1.11	28	1897
15	1.11	28	1897
16	1.11	28	1897
17	1.11	28	1897
18	1.11	28	1897
19	1.11	28	1897
20	1.11	28	1897
21	1.11	28	1897
22	1.11	28	1897
23	1.11	28	1897
24	1.11	28	1897
25	1.11	28	1897
26	1.11	28	1897
27	1.11	28	1897
28	1.11	28	1897
29	1.11	28	1897
30	1.11	28	1897
31	1.11	28	1897

\* ALSO ON EARLIER YEARS

T TRACE AN AMOUNT TOO SMALL TO MEASURE

BLANK LINE IN SNOWFALL INDICATES NO SNOWFALL FOR DAY OF YEAR.

DIRNAVOCEANMET-SMOS

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 20% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 20% observation reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- a. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

## EXTREME VALUES

$$H(\Omega; \mathbb{C}) \Delta_{\mathbb{C}} \cong \text{OPEN}(\mathbb{R}, \mathbb{A}^n) \otimes \mathbb{C}.$$

YEARS

(MPH 1949-1955)

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

1. ALL DATA  
FROM DAILY OBSERVATIONS

STATION 33 KX 1 2115 200 1 4 - 21 STATION NAME YEARS

WIND SPEED IN MPH (MPH 1949-1955)

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1	11.1	17.1	33.1	20.0	2.0	1.0	34.1	65.2	62.1	32.0	2.1	1.1	1.1
2	22.2	25.2	47.3	31.2	3.0	34.0	34.2	67.2	37.2	34.3	1.2	1.2	1.2
3	32.2	24.4	37.4	12.3	3.17	37.1	37.24	37.1	37.7	27.2	1.3	1.3	1.3
4	23.2	22.2	3.2	4.2	2.2	43.2	13.2	27.2	3.2	22.2	2.2	2.2	1.4
5	3.2	11.1	11.2	12.2	4.2	38.1	34.2	10.2	4.4	26.4	2.2	2.2	1.5
6	23.1	21.1	3.2	5.2	1.2	23.1	46.2	24.2	1.2	26.2	2.2	2.2	1.6
7	24.1	22.1	1.2	4.2	2.1	34.1	42.1	1.2	34.1	34.6	2.2	2.2	1.7
8	4.1	11.1	1.2	4.2	4.2	23.2	39.1	35.1	47.1	1.2	1.2	1.2	1.8
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	22.2	25.2	33.1	20.0	2.0	1.0	34.1	65.2	62.1	32.0	2.1	1.1	1.1
S.D.	1.1	1.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
TOTAL OBS	154	154	154	154	154	154	154	154	154	154	154	154	154

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

DATE PAGE 4711  
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, NC 111 STATION NAME ASHEVILLE YEARS 1949-1955

WIND SPEEDS IN MPH (MPH 1949-1955)  
MAXIMUM WIND SPEED FOR EACH MONTH

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
49		1											
50		1											
51	15	15	4	1	1	1	1	1	1	1	1	1	1
52	7	1	1	1	1	1	1	1	1	1	1	1	1
53						1							
54			1										
55			1										
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN													
S D													
TOTAL OBS													

SMOS



4

744642

1275

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS LST
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1961 MONTH: 12  
CLASS: AL HOURS: 12  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								•	•
NNE	•	•	•	•								•	•
NE	•	•										•	•
ENE	•	•		•								•	•
E			•									•	•
ESE	•											•	•
SE	•	•	•									•	•
SSE	•	•										•	•
S	•	•	•	•		•						•	•
SSW	•	•		•								•	•
SW	•	•		•								•	•
WSW	•	•	•									•	•
W	•	•	•	•								•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL												•	•
CALM												•	•
	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS 12

SMOS



4

JAN 54 12

1125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1953 MONTH 1  
CLASS 1 HOURS 1 S T  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	27.0	0	27.0	0	0	0	0	0	0	0	0	100.0	0

TOTAL NUMBER OF OBSERVATIONS 24

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH 12  
CLASS ALL WEATHER HOURS 15.5  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS U.S.T.

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•	•	•	•	•	•	•	•	•
NNE	•	•	•	•	•	•	•	•	•	•	•	•	•
NE	•	•	•	•	•	•	•	•	•	•	•	•	•
ENE	•	•	•	•	•	•	•	•	•	•	•	•	•
E	•	•	•	•	•	•	•	•	•	•	•	•	•
ESE	•	•	•	•	•	•	•	•	•	•	•	•	•
SE	•	•	•	•	•	•	•	•	•	•	•	•	•
SSE	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•
SSW	•	•	•	•	•	•	•	•	•	•	•	•	•
SW	•	•	•	•	•	•	•	•	•	•	•	•	•
WSW	•	•	•	•	•	•	•	•	•	•	•	•	•
W	•	•	•	•	•	•	•	•	•	•	•	•	•
WNW	•	•	•	•	•	•	•	•	•	•	•	•	•
NW	•	•	•	•	•	•	•	•	•	•	•	•	•
NNW	•	•	•	•	•	•	•	•	•	•	•	•	•
VARBL	•	•	•	•	•	•	•	•	•	•	•	•	•
CALM	•	•	•	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

SMOS

NO. 1, WEATHER, FORM 1  
 1-1-61  
 1-1-61

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVY DEPARTMENT  
OFFICE OF THE SECRETARY  
WASHINGTON, D. C.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NO. 1. Wind direction and speed.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

DATE

CLASS

REMARKS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	1/2	WIND DIRECTION CLASS
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVAL WEATHER SERVICE  
NAVY DEPARTMENT  
WASHINGTON, D. C.PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NOVA 412

125

NAVAL WEATHER SERVICE  
DETACHMENT  
AGNEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS

DATE

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
AGRIVILLE, GE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AGRIVILLE, GE STATION NAME AGRIVILLE YEARS 1951-1952 MONTH 1-12

CLASS 1-2 HOURS 12-5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1	1	1									1	1
NNE	1	1	1	1								1	1
NE	1	1	1	1								1	1
ENE	1	1	1									1	1
E	1	1	1									1	1
ESE	1	1	1	1								1	1
SE		1	1									1	1
SSE	1	1	1	1								1	1
S	1	1	1	1								1	1
SSW		1	1	1								1	1
SW		1	1	1	1							1	1
WSW		1	1	1	1							1	1
W		1	1	1	1							1	1
WNW		1	1	1	1							1	1
NW		1	1	1	1							1	1
NNW	1	1	1	1								1	1
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

4

1000

1000

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH ALL  
 CLASS 1 HOURS 12  
 CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.
	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL													
CALM													
	100	100	100	100	100	100	100	100	100	100	100	100	100

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

NOVEMBER

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

FORM 512

12/5

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NO. 101 WEATHER LOG  
 1950-1951  
 WINDS

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED KNTS)	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
DIR													
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVY AIR FORCE  
OBSERVATION  
ADVISORY

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CAL <sup>1</sup>													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87	88 - 95	96 - 103	104 - 111	112 - 119	120 - 127	128 - 135	136 - 143	144 - 151	152 - 159	160 - 167	168 - 175	176 - 183	184 - 191	192 - 199	200 - 207	208 - 215	216 - 223	224 - 231	232 - 239	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279	280 - 287	288 - 295	296 - 303	304 - 311	312 - 319	320 - 327	328 - 335	336 - 343	344 - 351	352 - 359	360 - 367	368 - 375	376 - 383	384 - 391	392 - 399	400 - 407	408 - 415	416 - 423	424 - 431	432 - 439	440 - 447	448 - 455	456 - 463	464 - 471	472 - 479	480 - 487	488 - 495	496 - 503	504 - 511	512 - 519	520 - 527	528 - 535	536 - 543	544 - 551	552 - 559	560 - 567	568 - 575	576 - 583	584 - 591	592 - 599	600 - 607	608 - 615	616 - 623	624 - 631	632 - 639	640 - 647	648 - 655	656 - 663	664 - 671	672 - 679	680 - 687	688 - 695	696 - 703	704 - 711	712 - 719	720 - 727	728 - 735	736 - 743	744 - 751	752 - 759	760 - 767	768 - 775	776 - 783	784 - 791	792 - 799	800 - 807	808 - 815	816 - 823	824 - 831	832 - 839	840 - 847	848 - 855	856 - 863	864 - 871	872 - 879	880 - 887	888 - 895	896 - 903	904 - 911	912 - 919	920 - 927	928 - 935	936 - 943	944 - 951	952 - 959	960 - 967	968 - 975	976 - 983	984 - 991	992 - 999	1000 - 1007	1008 - 1015	1016 - 1023	1024 - 1031	1032 - 1039	1040 - 1047	1048 - 1055	1056 - 1063	1064 - 1071	1072 - 1079	1080 - 1087	1088 - 1095	1096 - 1103	1104 - 1111	1112 - 1119	1120 - 1127	1128 - 1135	1136 - 1143	1144 - 1151	1152 - 1159	1160 - 1167	1168 - 1175	1176 - 1183	1184 - 1191	1192 - 1199	1200 - 1207	1208 - 1215	1216 - 1223	1224 - 1231	1232 - 1239	1240 - 1247	1248 - 1255	1256 - 1263	1264 - 1271	1272 - 1279	1280 - 1287	1288 - 1295	1296 - 1303	1304 - 1311	1312 - 1319	1320 - 1327	1328 - 1335	1336 - 1343	1344 - 1351	1352 - 1359	1360 - 1367	1368 - 1375	1376 - 1383	1384 - 1391	1392 - 1399	1400 - 1407	1408 - 1415	1416 - 1423	1424 - 1431	1432 - 1439	1440 - 1447	1448 - 1455	1456 - 1463	1464 - 1471	1472 - 1479	1480 - 1487	1488 - 1495	1496 - 1503	1504 - 1511	1512 - 1519	1520 - 1527	1528 - 1535	1536 - 1543	1544 - 1551	1552 - 1559	1560 - 1567	1568 - 1575	1576 - 1583	1584 - 1591	1592 - 1599	1600 - 1607	1608 - 1615	1616 - 1623	1624 - 1631	1632 - 1639	1640 - 1647	1648 - 1655	1656 - 1663	1664 - 1671	1672 - 1679	1680 - 1687	1688 - 1695	1696 - 1703	1704 - 1711	1712 - 1719	1720 - 1727	1728 - 1735	1736 - 1743	1744 - 1751	1752 - 1759	1760 - 1767	1768 - 1775	1776 - 1783	1784 - 1791	1792 - 1799	1800 - 1807	1808 - 1815	1816 - 1823	1824 - 1831	1832 - 1839	1840 - 1847	1848 - 1855	1856 - 1863	1864 - 1871	1872 - 1879	1880 - 1887	1888 - 1895	1896 - 1903	1904 - 1911	1912 - 1919	1920 - 1927	1928 - 1935	1936 - 1943	1944 - 1951	1952 - 1959	1960 - 1967	1968 - 1975	1976 - 1983	1984 - 1991	1992 - 1999	2000 - 2007	2008 - 2015	2016 - 2023	2024 - 2031	2032 - 2039	2040 - 2047	2048 - 2055	2056 - 2063	2064 - 2071	2072 - 2079	2080 - 2087	2088 - 2095	2096 - 2103	2104 - 2111	2112 - 2119	2120 - 2127	2128 - 2135	2136 - 2143	2144 - 2151	2152 - 2159	2160 - 2167	2168 - 2175	2176 - 2183	2184 - 2191	2192 - 2199	2200 - 2207	2208 - 2215	2216 - 2223	2224 - 2231	2232 - 2239	2240 - 2247	2248 - 2255	2256 - 2263	2264 - 2271	2272 - 2279	2280 - 2287	2288 - 2295	2296 - 2303	2304 - 2311	2312 - 2319	2320 - 2327	2328 - 2335	2336 - 2343	2344 - 2351	2352 - 2359	2360 - 2367	2368 - 2375	2376 - 2383	2384 - 2391	2392 - 2399	2400 - 2407	2408 - 2415	2416 - 2423	2424 - 2431	2432 - 2439	2440 - 2447	2448 - 2455	2456 - 2463	2464 - 2471	2472 - 2479	2480 - 2487	2488 - 2495	2496 - 2503	2504 - 2511	2512 - 2519	2520 - 2527	2528 - 2535	2536 - 2543	2544 - 2551	2552 - 2559	2560 - 2567	2568 - 2575	2576 - 2583	2584 - 2591	2592 - 2599	2600 - 2607	2608 - 2615	2616 - 2623	2624 - 2631	2632 - 2639	2640 - 2647	2648 - 2655	2656 - 2663	2664 - 2671	2672 - 2679	2680 - 2687	2688 - 2695	2696 - 2703	2704 - 2711	2712 - 2719	2720 - 2727	2728 - 2735	2736 - 2743	2744 - 2751	2752 - 2759	2760 - 2767	2768 - 2775	2776 - 2783	2784 - 2791	2792 - 2799	2800 - 2807	2808 - 2815	2816 - 2823	2824 - 2831	2832 - 2839	2840 - 2847	2848 - 2855	2856 - 2863	2864 - 2871	2872 - 2879	2880 - 2887	2888 - 2895	2896 - 2903	2904 - 2911	2912 - 2919	2920 - 2927	2928 - 2935	2936 - 2943	2944 - 2951	2952 - 2959	2960 - 2967	2968 - 2975	2976 - 2983	2984 - 2991	2992 - 2999	3000 - 3007	3008 - 3015	3016 - 3023	3024 - 3031	3032 - 3039	3040 - 3047	3048 - 3055	3056 - 3063	3064 - 3071	3072 - 3079	3080 - 3087	3088 - 3095	3096 - 3103	3104 - 3111	3112 - 3119	3120 - 3127	3128 - 3135	3136 - 3143	3144 - 3151	3152 - 3159	3160 - 3167	3168 - 3175	3176 - 3183	3184 - 3191	3192 - 3199	3200 - 3207	3208 - 3215	3216 - 3223	3224 - 3231	3232 - 3239	3240 - 3247	3248 - 3255	3256 - 3263	3264 - 3271	3272 - 3279	3280 - 3287	3288 - 3295	3296 - 3303	3304 - 3311	3312 - 3319	3320 - 3327	3328 - 3335	3336 - 3343	3344 - 3351	3352 - 3359	3360 - 3367	3368 - 3375	3376 - 3383	3384 - 3391	3392 - 3399	3400 - 3407	3408 - 3415	3416 - 3423	3424 - 3431	3432 - 3439	3440 - 3447	3448 - 3455	3456 - 3463	3464 - 3471	3472 - 3479	3480 - 3487	3488 - 3495	3496 - 3503	3504 - 3511	3512 - 3519	3520 - 3527	3528 - 3535	3536 - 3543	3544 - 3551	3552 - 3559	3560 - 3567	3568 - 3575	3576 - 3583	3584 - 3591	3592 - 3599	3600 - 3607	3608 - 3615	3616 - 3623	3624 - 3631	3632 - 3639	3640 - 3647	3648 - 3655	3656 - 3663	3664 - 3671	3672 - 3679	3680 - 3687	3688 - 3695	3696 - 3703	3704 - 3711	3712 - 3719	3720 - 3727	3728 - 3735	3736 - 3743	3744 - 3751	3752 - 3759	3760 - 3767	3768 - 3775	3776 - 3783	3784 - 3791	3792 - 3799	3800 - 3807	3808 - 3815	3816 - 3823	3824 - 3831	3832 - 3839	3840 - 3847	3848 - 3855	3856 - 3863	3864 - 3871	3872 - 3879	3880 - 3887	3888 - 3895	3896 - 3903	3904 - 3911	3912 - 3919	3920 - 3927	3928 - 3935	3936 - 3943	3944 - 3951	3952 - 3959	3960 - 3967	3968 - 3975	3976 - 3983	3984 - 3991	3992 - 3999	4000 - 4007	4008 - 4015	4016 - 4023	4024 - 4031	4032 - 4039	4040 - 4047	4048 - 4055	4056 - 4063	4064 - 4071	4072 - 4079	4080 - 4087	4088 - 4095	4096 - 4103	4104 - 4111	4112 - 4119	4120 - 4127	4128 - 4135	4136 - 4143	4144 - 4151	4152 - 4159	4160 - 4167	4168 - 4175	4176 - 4183	4184 - 4191	4192 - 4199	4200 - 4207	4208 - 4215	4216 - 4223	4224 - 4231	4232 - 4239	4240 - 4247	4248 - 4255	4256 - 4263	4264 - 4271	4272 - 4279	4280 - 4287	4288 - 4295	4296 - 4303	4304 - 4311	4312 - 4319	4320 - 4327	4328 - 4335	4336 - 4343	4344 - 4351	4352 - 4359	4360 - 4367	4368 - 4375	4376 - 4383	4384 - 4391	4392 - 4399	4400 - 4407	4408 - 4415	4416 - 4423	4424 - 4431	4432 - 4439	4440 - 4447	4448 - 4455	4456 - 4463	4464 - 4471	4472 - 4479	4480 - 4487	4488 - 4495	4496 - 4503	4504 - 4511	4512 - 4519	4520 - 4527	4528 - 4535	4536 - 4543	4544 - 4551	4552 - 4559	4560 - 4567	4568 - 4575	4576 - 4583	4584 - 4591	4592 - 4599	4600 - 4607	4608 - 4615	4616 - 4623	4624 - 4631	4632 - 4639	4640 - 4647	4648 - 4655	4656 - 4663	4664 - 4671	4672 - 4679	4680 - 4687	4688 - 4695	4696 - 4703	4704 - 4711	4712 - 4719	4720 - 4727	4728 - 4735	4736 - 4743	4744 - 4751	4752 - 4759	4760 - 4767	4768 - 4775	4776 - 4783	4784 - 4791	4792 - 4799	4800 - 4807	4808 - 4815	4816 - 4823	4824 - 4831	4832 - 4839	4840 - 4847	4848 - 4855	4856 - 4863	4864 - 4871	4872 - 4879	4880 - 4887	4888 - 4895	4896 - 4903	4904 - 4911	4912 - 4919	4920 - 4927	4928 - 4935	4936 - 4943	4944 - 4951	4952 - 4959	4960 - 4967	4968 - 4975	4976 - 4983	4984 - 4991	4992 - 4999	5000 - 5007	5008 - 5015	5016 - 5023	5024 - 5031	5032 - 5039	5040 - 5047	5048 - 5055	5056 - 5063	5064 - 5071	5072 - 5079	5080 - 5087	5088 - 5095	5096 - 5103	5104 - 5111	5112 - 5119	5120 - 5127	5128 - 5135	5136 - 5143	5144 - 5151	5152 - 5159	5160 - 5167	5168 - 5175	5176 - 5183	5184 - 5191	5192 - 5199	5200 - 5207	5208 - 5215	5216 - 5223	5224 - 5231	5232 - 5239	5240 - 5247	5248 - 5255	5256 - 5263	5264 - 5271	5272 - 5279	5280 - 5287	5288 - 5295	5296 - 5303	5304 - 5311	5312 - 5319	5320 - 5327	5328 - 5335	5336 - 5343	5344 - 5351	5352 - 5359	5360 - 5367	5368 - 5375	5376 - 5383	5384 - 5391	5392 - 5399	5400 - 5407	5408 - 5415	5416 - 5423	5424 - 5431	5432 - 5439	5440 - 5447	5448 - 5455	5456 - 5463	5464 - 5471	5472 - 5479	5480 - 5487	5488 - 5495	5496 - 5503	5504 - 5511	5512 - 5519	5520 - 5527	5528 - 5535	5536 - 5543	5544 - 5551	5552 - 5559	5560 - 5567	5568 - 5575	5576 - 5583	5584 - 5591	5592 - 5599	5600 - 5607	5608 - 5615	5616 - 5623	5624 - 5631	5632 - 5639	5640 - 5647	5648 - 5655	5656 - 5663	5664 - 5671	5672 - 5679	5680 - 5687	5688 - 5695	5696 - 5703	5704 - 5711	5712 - 5719	5720 - 5727	5728 - 5735	5736 - 5743	5744 - 5751	5752 - 5759	5760 - 5767	5768 - 5775	5776 - 5783	5784 - 5791	5792 - 5799	5800 - 5807	5808 - 5815	5816 - 5823	5824 - 5831	5832 - 5839	5840 - 5847	5848 - 5855	5856 - 5863	5864 - 5871	5872 - 5879	5880 - 5887	5888 - 5895	5896 - 5903	5904 - 5911	5912 - 5919	5920 - 5927	5928 - 5935	5936 - 5943	5944 - 5951	5952 - 5959	5960 - 5967	5968 - 5975	5976 - 5983	5984 - 5991	5992 - 5999	6000 - 6007	6008 - 6015	6016 - 6023	6024 - 6031	6032 - 6039	6040 - 6047	6048 - 6055	6056 - 6063	6064 - 6071	6072 - 6079	6080 - 6087	6088 - 6095	6096 - 6103	6104 - 6111	6112 - 6119	6120 - 6127	6128 - 6135	6136 - 6143	6144 - 6151	6152 - 6159	6160 - 6167	6168 - 6175	6176 - 6183	6184 - 6191	6192 - 6199	6200 - 6207	6208 - 6215	6216 - 6223	6224 - 6231	6232 - 6239	6240 - 6247	6248 - 6255	6256 - 6263	6264 - 6271	6272 - 6279	6280 - 6287	6288 - 6295	6296 - 6303	6304 - 6311	6312 - 6319	6320 - 6327	6328 - 6335	6336 - 6343	6344 - 6351	6352 - 6359	6360 - 6367	6368 - 6375	6376 - 6383	6384 - 6391	6392 - 6399	6400 - 6407	6408 - 6415	64141
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4

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

CLASS \_\_\_\_\_ HOURS \_\_\_\_\_

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

4097 =

### CLASS

MOORE 57

### COMPOSITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

STATION

STATION NAME

YEARS

NOTE

**CLASS**

HOURS . . . 5-7

CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS 11 5 T

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER DIVISION  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS L S T \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.		.	.								.	.
NNE	.	.	.	.								.	.
NE		.	.	.								.	.
ENE	.	.	.	.								.	.
E	.	.	.									.	.
ESE	.	.	.	.								.	.
SE	.	.	.	.								.	.
SSE		.	.	.								.	.
S	.	.	.	.								.	.
SSW	.	.	.	.	.							.	.
SW	.	.	.	.	.							.	.
WSW	.	.	.	.	.							.	.
W	.	.	.	.								.	.
WNW	.	.	.	.	.							.	.
NW	.	.	.	.	.							.	.
NNW	.	.	.	.	.							.	.
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1961 MONTH: 12

CLASS: 1

CONDITION: 1

HOURLY OBSERVATIONS: 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT 1  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ NO. OF ST \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS





4

7504132

1226

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURLY
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1	7	1	1	1							1	

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
METEOROLOGICAL  
ANALYST/NO

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL OBSERVATION  
STATION REPORT  
WIND RECORD

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
STATION REPORT  
WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMCJS

4

WIND RECORDING  
STATION NAME  
AT NEW YORK

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

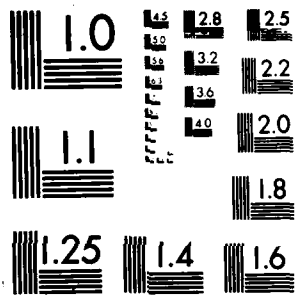
SMOS

UNCLASSIFIED

JACKSONVILLE FLORIDA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC NOV 83

NL

F/G 4/2



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963-A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

AL SEAT  
CLASS

HOURS (L E T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.0	1.0	.0								3.0	1.4
NNE	.0	.0	2.0									3.0	5.2
NE	.0	2.0		.0								2.0	5.6
ENE	.0	1.0										2.0	1.0
E	2.0	1.0										3.0	2.9
ESE	1.0	1.0										2.0	4.1
SE	.0	2.0	2.0									4.0	5.5
SSE	1.0	1.0	2.0	.0								4.0	1.2
S	1.0	4.0	2.0									8.0	.9
SSW	1.0	4.0	1.0									7.0	5.9
SW	1.0	4.0	1.0									7.0	5.0
WSW	.0	1.0	1.0									10.1	5.1
W	4.0	1.0	1.0									14.1	4.4
WNW	1.0	.0	.0									2.4	4.2
NW	.0	.0	.0									4.4	7.4
NNW	.0	1.0	2.0	.0								5.0	5.9
VARBL													
CALM												6.0	
	22.5	42.7	12.4	2.4								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 242

SMOS

4  
74064432  
1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA STATION NAME JACKSONVILLE, FLORIDA YEARS 73-76 NAVY NORTH 17  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.4	1.0	.4								3.0	6.5
NNE	1.0	2.4	.0	.5	.4							5.0	6.3
NE	.0	2.0	1.0	.5	.4							6.0	6.9
ENE	2.4	2.0	1.0									6.0	4.5
E	1.0	3.0	1.0	.4								7.0	6.4
ESE	1.0	1.0	1.0									4.0	4.7
SE	.0	1.0	.0	1.6								4.0	7.7
SSE	.0	4.0	2.0	.4	.4							10.0	5.2
S	2.4	2.0	2.0	1.6								12.0	7.5
SSW	1.0	.4	2.0	.5								6.4	7.3
SW	.0	.4	2.0	.5								4.0	7.1
WSW	1.0	2.0	2.0	.4								6.5	6.9
W	1.0	5.6	4.4	.5								12.0	7.4
WNW	.0	1.0	.4									2.4	4.7
NW	.0	.0	2.0									2.0	6.1
NNW		1.0	.0									2.0	5.5
VARBL													
CALM												1.0	
	20.0	35.6	31.0	8.9	1.2							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 241

SMOS

6  
4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA YEARS 1954 MONTH 4  
STATION NAME ALL WEATHER CLASS 1  
CONDITION 1 HOURS (L.S.T.) 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.7	.0	.0								5.1	2.2
NNE		1.0	2.0	1.6								3.6	2.4
NE	.0	1.0	2.0	.0								4.0	2.2
ENE	.0	2.7	1.0	.0								7.7	2.3
E	1.0	2.0	4.0	.4								11.7	2.2
ESE	.0	2.7	2.0	.4								12.0	2.2
SE	.0	.4	2.0	.4								6.6	2.9
SSE	1.0	7.2	7.4	1.2								20.7	7.2
S	.0	4.0	7.2	1.2								20.7	7.2
SSW	.0	1.0	1.0	1.6								4.6	2.7
SW	.0	1.0	1.0	.0								2.0	7.1
WSW	1.0	1.0	2.0	1.2	.4							6.0	2.6
W	.0	.0	2.0	.0								3.0	7.2
WNW	.0	1.0	1.0	.4								2.0	2.6
NW	.0	.0	.0	.0								1.0	2.2
NNW	.0	1.0	.0	.0								1.0	4.0
VARBL													
CALM													
	14.1	34.7	30.1	11.7	.4							10.0	2.7

TOTAL NUMBER OF OBSERVATIONS 240

SMOS

E  
4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA STATION NAME JACKSONVILLE, FLORIDA YEARS 77-78 MONTH MAY

CLASS ALL WEATHER

CONDITION

HOURS (L S T) 15

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.2		.4								2.4	4.0
NNE		1.2	.4	.4								2.4	4.0
NE	.4	2.0	1.2	2.0								6.0	5.0
ENE	.4	2.0	2.0	1.6								7.7	7.9
E	.4	1.6	10.1	1.2	.4							16.1	8.0
ESE		4.4	6.7	4.0								15.7	8.4
SE	.4	2.0	4.4	1.2								8.9	7.3
SSE			1.2	.4		.4						2.0	12.4
S	.4	1.6	1.2	1.2								6.7	6.7
SSW	.4	.4	.4	.4								2.0	7.0
SW		1.2	.4	1.2	.4		.4					4.0	11.5
WSW	.4	.4	1.2	1.2								6.1	6.0
W	.4	2.0	1.2	.4								7.7	7.3
WNW	1.2	2.0	1.2									4.7	4.8
NW	.4	.4	.4									1.2	6.7
NNW		.4	.4									1.2	7.0
VARB.													
CALM													
	.4	20.0	44.0	11.7	.9	.4	.4					10.0	6.0

TOTAL NUMBER OF OBSERVATIONS 245

SMOS

4

21001412

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 7 JACKSONVILLE, FLORIDA 1960-1961 YEARS NORTH  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												2.0	7.8
NNE												2.4	5.7
NE	0.4	0.4	2.0	0.4								3.0	7.4
ENE	0.1	0.1	1.0	0.4								6.0	5.0
E	0.1	0.1	1.0	0.1								19.0	5.0
ESE	1.2	1.1	7.7	0.4								17.3	6.4
SE	0.1	2.0	0.1	1.2	0.4							10.1	8.0
SSE	0.1	0.1	2.0	0.4								4.0	7.7
S	0.1	7.7	2.0	1.6	0.1							8.0	5.7
SSW		1.0	0.1									2.0	5.0
SW	0.1	0.1	2.0	0.4								4.0	6.0
WSW	1.0	0.1	2.0	0.4								7.0	5.0
W	1.0	4.0	1.0	0.4								7.0	5.4
WNW	0.1	2.0		0.4								2.0	5.4
NW		0.1	0.4	0.4								1.0	5.7
NNW		0.1	0.1									0.1	7.0
VARBL													
CALM													
	11.7	35.5	43.1	9.8	1.2							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 241

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA 13-4 YEARS MAY MONTH  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4	.4									.8	0.7
NNE	.4	.4	1.2									2.0	5.8
NE	1.2	2.4	.4	.4								4.4	6.7
ENE	.4	2.4	.4									3.6	4.6
E	.4	4.6	1.2									6.2	4.7
ESE	1.2	3.2	2.0									7.7	5.7
SE	.4	.9	4.6									13.7	6.6
SSE	.4	.4	7.7	.4								12.7	7.3
S	.4	5.8	4.6	.4								15.7	7.8
SSW	1.2	2.4	1.2	.4								6.3	5.9
SW	1.2	2.4	.4	.4								4.4	5.6
WSW	1.2	.4	7.7	.4								10.1	5.4
W	1.2	1.2	1.2									4.4	5.7
WNW	.4	.4		.4								1.6	5.3
NW		.4										.4	5.0
NNW		.4										.4	4.5
VARBL													
CALM												1.2	
	14.5	45.8	34.7	7.3								10.7	5.6

TOTAL NUMBER OF OBSERVATIONS 244

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA 72-11  
STATION NAME YEARS  
CLASS ALL WEATHER  
CONDITION  
M & V NORTH  
ALL HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	1.0	.5								1.0	6.4
NNE	.0	1.0	1.0	.7	.1							1.0	7.7
NE	.0	1.0	1.0	.5	.1							4.0	6.3
ENE	1.0	2.0	1.0	.4								4.0	5.5
E	1.0	3.0	.7	.4	.1							9.7	6.1
ESE	1.0	2.0	0.7	.7								8.7	7.3
SE	1.0	2.0	1.1	.6	.1							7.0	5.5
SSE	1.0	3.0	2.0	.5	.1	.1						5.1	5.8
S	1.0	4.1	4.7	.9	.2							10.7	6.7
SSW	1.1	2.7	1.8	.4								5.0	5.8
SW	1.0	2.7	1.7	.4	.1		.1					6.1	6.3
WSW	.0	1.3	.7	.7	.1							5.0	.5
W	.0	4.4	2.7	.4								9.7	5.5
WNW	.0	1.2	.7	.2								2.7	4.9
NW	.0	.7	.7	.2								1.1	5.4
NNW	.0	.7	.7	.2								1.0	6.5
VARBL													
CALM												2.0	
	10.5	7.4	30.7	7.3	.5	.1	.1					10.7	5.9

TOTAL NUMBER OF OBSERVATIONS 1594

SMOS

4  
16064432  
7225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION DAKINVILLE, FLORIDA STATION NAME DAKINVILLE, FLORIDA YEARS 1977-1978 MONTH JULY

CLASS ALL WEATHER

CONDITION

HOURS (L S T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	0.0
NNE												1.0	0.0
NE												4.0	0.0
ENE												2.0	0.0
E												6.7	0.0
ESE												4.0	0.0
SE												4.0	0.0
SSE												0.0	0.0
S												1.0	0.0
SSW												1.0	0.0
SW												11.0	0.0
WSW												1.0	0.0
W												7.0	0.0
WNW												0.0	0.0
NW												0.0	0.0
NNW												0.0	0.0
VARBL												0.0	0.0
CALM												0.0	0.0
	27.0	4.0	1.0	1.7								17.0	4.0

TOTAL NUMBER OF OBSERVATIONS 24

SMOS



7406412  
4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA STATION NAME JACKSONVILLE, FLORIDA YEARS 1950-1951 NORTH 000  
CLASS ALL SEAS  
CONDITION ALL SEAS  
HOURS 11.5

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.7	1.7	1.7								2.7	1.7
NNE			1.7	1.7								2.7	1.7
NE			1.7	1.7								1.7	1.7
ENE		1.7	1.7	1.7								1.7	1.7
E	1.7	1.7	1.7	1.7								1.7	1.7
ESE	1.7	1.7	1.7	1.7								1.7	1.7
SE	1.7	1.7	1.7	1.7								1.7	1.7
SSE		1.7	1.7	1.7								1.7	1.7
S	1.7	1.7	1.7	1.7								1.7	1.7
SSW	1.7	1.7	1.7	1.7								1.7	1.7
SW	1.7	1.7	1.7	1.7								1.7	1.7
WSW	1.7	1.7	1.7	1.7								1.7	1.7
W	1.7	1.7	1.7	1.7								1.7	1.7
WNW	1.7	1.7	1.7	1.7								1.7	1.7
NW	1.7	1.7	1.7	1.7								1.7	1.7
NNW	1.7	1.7	1.7	1.7								1.7	1.7
VARBL													
CALM													
	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS 24

SMOS

E  
4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME SAVILL, FORT YEARS 1951 MONTH 7

CLASS PL

CONDITION

HOURS 1157

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 1157

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1951-1952 MONTH ALL MONTHS  
CLASS ALL WEATHER  
CONDITION ALL WEATHER  
HOURS ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 1000

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1951-1952 MONTH ALL

CLASS ALL

CONDITION ALL

HOURS ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.1	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL												1.0	0.0
CALM												1.0	0.0
	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



4

7456432

725

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	WASHN HILL, FRONT	STATION NAME	7-	YEARS	1	MONTH
			ALL WEATHER			1
			CLASS			HOURS (LST)
			CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	7.1	1.0	.6								4.0	5.0
NNE		.	.	.6	.1							4.0	11.1
NE	.	.	2.0	1.1	.							7.0	4.5
ENE	.	1.0	.6	1.0								7.0	7.8
E	1.1	.6	11.0	.6								1.0	7.6
ESE	.	.6	.6	1.7								14.0	6.0
SE	.1	1.0	7.0	.	.6							1.7	7.4
SSE		1.0	.	.4	.1							.	.9
S	.	.	.6	.6								7.0	1.0
SSW	.	1.0	1.0	.6								6.0	.7
SW	.	.	.6	.								4.0	.1
WSW	.	1.0	.									1.4	1.1
W	.	.6	.	.6								6.0	.1
WNW	.		.									1.0	.7
NW			.	.6								1.0	7.7
NNW		.										.	.0
VARBL												.	
CALM												.	
	11.0	.6	44.0	17.7	.1							17.0	7.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

7085-147

075

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
CLASS: \_\_\_\_\_  
CONDITION: \_\_\_\_\_  
HOURS: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			•	•	•							1.0	1.0
NNE		•	•	•	•							1.0	1.0
NE	•	•	•	•	•							1.0	1.0
ENE	•	•	•	•	•							1.0	1.0
E	•	•	•	•	•							1.0	1.0
ESE		•	•	•	•							1.0	1.0
SE	•	•	•	•	•							1.0	1.0
SSE		•	•	•	•							1.0	1.0
S	•	•	•	•	•							1.0	1.0
SSW	•	•	•	•	•							1.0	1.0
SW		•	•	•	•							1.0	1.0
WSW	•	•	•	•	•							1.0	1.0
W	•	•	•	•	•							1.0	1.0
WNW	•	•	•	•	•							1.0	1.0
NW		•	•	•	•							1.0	1.0
NNW	•	•	•	•	•							1.0	1.0
VARBL													
CALM													
	1.0	1.0	1.0	1.0	1.0							1.0	1.0

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, FLORIDA STATION NAME ASHEVILLE YEARS 1951-1952 MONTH JULY

CLASS ALL WEATHER

CONDITION

HOURS 1157

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NNE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ENE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
E	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ESE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SSE	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SSW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WSW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
W	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
WNW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
NNW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
VARBL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
CALM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOTAL NUMBER OF OBSERVATIONS 1157

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1951 MONTH: ALL  
CLASS: ALL HOURS: 12-24  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	1.0	0.0	0.0	0.1							0.4	0.0
NNE	0.0	1.0	1.0	0.0	0.1							4.0	7.0
NE	0.0	1.0	1.0	1.0	0.0							4.0	7.0
ENE	1.0	1.0	1.0	0.0								3.0	0.0
E	0.0	0.0	0.0	0.0	0.0							0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0							0.0	0.0
SE	0.0	0.0	1.0	0.0	0.0							0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0							0.0	0.0
S	0.0	0.0	0.0	0.0	0.0							0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
W	0.0	0.0	0.0	0.0	0.0							0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0							0.0	0.0
VARBL													
CALM													
	2.0	1.0	2.0	0.0	0.0							1.0	0.0

TOTAL NUMBER OF OBSERVATIONS 102

SMOS



4  
7086 1432  
125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH JUL  
CLASS ALL WEATHER  
CONDITION   
HOURS (L S T) 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1.0	4.0	1.0	1.0								7.0	1.0

TOTAL NUMBER OF OBSERVATIONS 21

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA STATION NAME JACKSONVILLE, FLORIDA YEARS 1951-1952 MONTH JULY

CLASS 14 HOURS (L.S.T.) 14

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		0.0										0.0	0.0
NNE	0.0	0.0	0.0									0.0	0.0
NE	0.0	0.0	0.0									0.0	0.0
ENE	1.0	0.0	0.0									0.0	0.0
E	0.0	0.0	0.0	0.0	0.0							0.0	0.0
ESE	0.0	0.0	0.0									0.0	0.0
SE	0.0	0.0	0.0									0.0	0.0
SSE	1.0	0.0	0.0									0.0	0.0
S	0.0	0.0	0.0									0.0	0.0
SSW	0.0	0.0	1.0									0.0	0.0
SW	0.0	0.0	0.0									0.0	0.0
WSW	0.0	0.0	0.0									0.0	0.0
W	0.0	0.0	0.0									0.0	0.0
WNW	0.0	0.0	0.0									0.0	0.0
NW	1.0	0.0	0.0									0.0	0.0
NNW	0.0	0.0	0.0									0.0	0.0
VARBL													
CALM												11.0	
	57.1	41.0	1.0	0.0	0.0							10.0	0.0

TOTAL NUMBER OF OBSERVATIONS 242

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION JACKSONVILLE, FLORIDA YEAR 1950

CLAS NORTH

HOURS 11 57

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	0.0									0.0	0.4
NNE	1.0	0.0	0.0									0.0	0.4
NE		0.0										0.0	0.4
ENE	1.0	0.0										0.0	0.4
E	0.0	1.0										0.0	0.4
ESE	1.0	1.0	0.0									0.0	0.4
SE	0.0	1.0										0.0	0.4
SSE	0.0	1.0	0.0									0.0	0.4
S	0.0	1.0	0.0									0.0	0.4
SSW	0.0	0.0	1.0									0.0	0.4
SW	0.0	0.0	0.0									0.0	0.4
WSW	0.0	0.0	0.0	0.0								0.0	0.4
W	0.0	0.0	0.0									0.0	0.4
WNW	0.0	0.0	0.0									0.0	0.4
NW	0.0	0.0	0.0									0.0	0.4
NNW	0.0	0.0	0.0									0.0	0.4
VARBL												0.0	0.4
CALM												0.0	0.4
	1.0	4.0	0.0	0.0								0.0	0.4

TOTAL NUMBER OF OBSERVATIONS 11 57

SMOS

E  
4

11000-10-32

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: \_\_\_\_\_ STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
CLASS: \_\_\_\_\_ HOURS: \_\_\_\_\_  
CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•										•	•
NNE	•	•	•									•	•
NE	•	•	•	•								•	•
ENE	•	•	•	•								•	•
E	•	•	•	•	•							•	•
ESE	•	•	•	•	•							•	•
SE	•	•	•	•	•							•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•	•	•							•	•
SW	•	•	•	•	•							•	•
WSW	•	•	•	•	•							•	•
W	•	•	•	•	•							•	•
WNW	•	•	•	•	•							•	•
NW	•	•	•	•	•							•	•
NNW	•	•	•	•	•							•	•
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

1/10/12

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1991-1992 MONTH: 1

CLASS: 1

CONDITION: 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL													
CALM													
	100	100	100	100	100	100	100	100	100	100	100	100	100

TOTAL NUMBER OF OBSERVATIONS: 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, FLORIDA STATION NAME ASHEVILLE YEARS 1961 NORTH 11  
CLASS FLORIDA HOURS 11  
CONDITION FLORIDA

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0.7
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0.4
NE	0	0	1.0	0.4	0	0	0	0	0	0	0	0	0.7
ENE	0	0	0	1.0	0	0	0	0	0	0	0	0	0.7
E	0	0	1.0	1.0	0	0	0	0	0	0	0	0	0.7
ESE	0	0	0	0.4	0.4	0	0	0	0	0	0	0	0.4
SE	0	0	0	1.0	0	0	0	0	0	0	0	0	0.7
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0.4
S	0	0	0	0	0.4	0	0	0	0	0	0	0	0.4
SSW	0	0	0	0	0.4	0	0	0	0	0	0	0	0.4
SW	0	0	0	1.0	0	0	0	0	0	0	0	0	0.7
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0.7
W	0	0	0	0	0	0	0	0	0	0	0	0	0.1
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0.4
NW	0	0	0	0	0	0	0	0	0	0	0	0	0.4
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0.4
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0.4
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0.4
	11.7	10.7	4.0	1.7	0.2	0	0	0	0	0	0	1.0	0.7

TOTAL NUMBER OF OBSERVATIONS 117

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	100	100	100	100	100	100	100	100	100	100	100	100	100

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH JULY

CLASS 1-6 HOURS 1-5

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.									.	.
NNE	.	.	.									.	.
NE	.	.	.									.	.
ENE	.	.	.									.	.
E	.	.	.									.	.
ESE	.	.	.									.	.
SE	.	.	.									.	.
SSE	.	.	.									.	.
S	.	.	.									.	.
SSW	.	.	.									.	.
SW	.	.	.									.	.
WSW	.	.	.									.	.
W	.	.	.									.	.
WNW	.	.	.									.	.
NW	.	.	.									.	.
NNW	.	.	.									.	.
VARBL													
CALM													
	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS OF SET \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
ATTACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.									.	.
NNE	.	.	.									.	.
NE	.	.	.	.								.	.
ENE	.	.	.	.								.	.
E	.	.	.	.								.	.
ESE	.	.	.	.								.	.
SE	.	.	.	.								.	.
SSE	.	.	.	.								.	.
S	.	.	.	.	.							.	.
SSW	.	.	.	.								.	.
SW	.	.	.	.								.	.
WSW	.	.	.	.								.	.
W	.	.	.	.								.	.
WNW	.	.	.	.								.	.
NW	.	.	.	.								.	.
NNW	.	.	.	.								.	.
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT 1  
ASHWILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_  
CLASS: \_\_\_\_\_ HOURS U.S.T.: \_\_\_\_\_  
CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•								•	•
NNE	•	•	•	•								•	•
NE	•	•	•	•								•	•
ENE	•	•	•	•								•	•
E	•	•	•	•								•	•
ESE	•	•	•	•								•	•
SE	•	•	•	•								•	•
SSE	•	•	•	•								•	•
S	•	•	•	•								•	•
SSW	•	•	•	•								•	•
SW	•	•	•	•								•	•
WSW	•	•	•	•								•	•
W	•	•	•	•								•	•
WNW	•	•	•	•								•	•
NW	•	•	•	•								•	•
NNW	•	•	•	•								•	•
VARBL												•	•
CALM												•	•

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

7064137

1228

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH 1  
CLASS AL HOURS 1-24  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

4

NAVY DEPARTMENT  
OFFICE OF THE SECRETARY  
WASHINGTON, D. C.

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	100	100	100	100	100	100	100	100	100	100	100	100	

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH ALL

CLASS NAVAL WEATHER SERVICE

CONDITION NAVAL WEATHER SERVICE

HOUS 1.5 T

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS 741

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1961-1962

CLASS: 1 MONTH: 1

CONDITION: 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•		•									•	•
NNE	•	1•	1•	1•								•	•
NE		•	•									•	•
ENE	•	•	•									•	•
E	•	•	1•									•	•
ESE	•	•	•									•	•
SE	•	•	•	1•								•	•
SSE	•	•	•	•	•							•	•
S	•	•	•	•	•							•	•
SSW	•	•	•									•	•
SW		•	•	•								•	•
WSW	•	•	•									•	•
W	•	•	•									•	•
WNW	•	•										•	•
NW	•											•	•
NNW			•									•	•
VARBL												•	•
CALM												•	•
	1•	1•	4•	1•	•							1•	•

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASHEVILLE, NC YEARS 1961 MONTH 1

CLASS AL HOURS 1

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.0	4.0	21.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0

TOTAL NUMBER OF OBSERVATIONS 24

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS - L E T \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

1000-10-17

127

NAVAL WEATHER SERVICE  
DETACHMENT  
AGRICULTURE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N				1									
NNE			1										
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVY WEATHER SERVICE  
 DATA REPORT  
 WINDS

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS 1 2 3 4 5 6 7 8 9 10 11 12  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1	2	3	4	5	6	7	8	9	10	11	12	7

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASH-1 VILLAGE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVY WEATHER SERVICE  
UNITED STATES NAVY  
WASHINGTON, D.C.

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
OFFICE OF THE CHIEF OF NAVAL WEATHER SERVICE

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_  
 HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVY WEATHER SERVICE  
DETACHMENT  
ASHVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH ALL MONTHS

CLASS ALL MONTHS

CONDITION ALL MONTHS

HOURLY T.S.T.

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS 240

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1971 MONTH: 1  
CLASS: FL. STATION  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	1	0	0	0	0	0	0	0	0	1.0	0.7
NNE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
NE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
ENE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
E	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
ESE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
SE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
SSE	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
S	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
SSW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
SW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
WSW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
W	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
WNW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
NW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
NNW	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
VARBL	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
CALM	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	0	0	0	11.7	0.4	0	0	0	0	0	0	12.1	0.5

TOTAL NUMBER OF OBSERVATIONS: 14

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1961 MONTH: 12  
CLASS: 1  
CONDITION: 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1.0	1.0	2.0	1.0	1.0							10.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 10

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
HOURS LST \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT 1  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
 WIND RECORDING  
 FORM NO. 1-61

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - "	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVY WEATHER SERVICE  
ATLANTIC OCEANIC  
APPROPRIATE

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

TEARS

• • •

**CLASS**

100-01

CONFIDENTIAL

[illegible]

TOTAL NUMBER OF OBSERVATIONS

MOS

4

NAVY BUREAU OF  
OCEANOGRAPHY  
WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_  
 \_\_\_\_\_ CLASS \_\_\_\_\_  
 \_\_\_\_\_ CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MISS- ING OBS.
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SMOS



4

NAVY WEATHER SERVICE  
OFFICE OF THE CHIEF OF NAUTICAL  
ASTRONOMY

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ CLASS \_\_\_\_\_ MONTH \_\_\_\_\_  
YEAR \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS L S T \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS





4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE STATION NAME ASHEVILLE YEARS 1961-1962 MONTH ALL  
CLASS NAVAL WEATHER SERVICE HOURS ALL  
CONDITION ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•	•	•	•	•	•	•	•	•
NNE	•	•	•	•	•	•	•	•	•	•	•	•	•
NE	•	•	•	•	•	•	•	•	•	•	•	•	•
ENE	•	•	•	•	•	•	•	•	•	•	•	•	•
E	•	•	•	•	•	•	•	•	•	•	•	•	•
ESE	•	•	•	•	•	•	•	•	•	•	•	•	•
SE	•	•	•	•	•	•	•	•	•	•	•	•	•
SSE	•	•	•	•	•	•	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•	•	•	•	•	•	•
SSW	•	•	•	•	•	•	•	•	•	•	•	•	•
SW	•	•	•	•	•	•	•	•	•	•	•	•	•
WSW	•	•	•	•	•	•	•	•	•	•	•	•	•
W	•	•	•	•	•	•	•	•	•	•	•	•	•
WNW	•	•	•	•	•	•	•	•	•	•	•	•	•
NW	•	•	•	•	•	•	•	•	•	•	•	•	•
NNW	•	•	•	•	•	•	•	•	•	•	•	•	•
VARBL	•	•	•	•	•	•	•	•	•	•	•	•	•
CALM	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS 1000

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-1962 MONTH 1  
CLASS 1 HOURS 15  
CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS 27

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURLS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	1.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	1.	.	.	.	.	.	.	.	.	.
NE	.	.	1.	1.	.	.	.	.	.	.	.	.	.
ENE	.	.	1.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	1.	.	.	.	.	.	.	.	.	.	.
SE	1.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	1.	.	.	.	.	.	.	.	.	.	.
S	.	1.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	1.	1.	1.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	1.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	1.	.	.	.	.	.	.	.	.	.	.
NNW	.	1.	.	.	.	.	.	.	.	.	.	.	.
VARBL													
CALM													
	.	.	1.	1.	.	.	.	.	.	.	.	1.	.

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT 1  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1951-1952 MONTH ALL  
CLASS 1-2  
CONDITION 1-2

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

10

4

FORM 54-1

1775

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS (L S T)
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0.1							10.7	0.1
NNE	0	0.1	0	0.1	0							0.4	0.1
NE	0	0.1	0.1	0.1	0.1							0.4	0.1
ENE	0	0.1	0	0.1	0.1							0.4	0.1
E	0.1	0	0	0	0							0.1	0.1
ESE	0	0.1	0.1	0.1	0.1							0.4	0.1
SE	0	0.1	0.1	0.1	0.1							0.4	0.1
SSE	0	0.1	0.1	0.1	0.1							0.4	0.1
S	0.1	0	0.1	0.1	0.1							0.4	0.1
SSW	0	0.1	0.1	0.1	0.1							0.4	0.1
SW	0.1	0	0	0	0							0.1	0.1
WSW	0.1	0.1	0	0.1	0.1							0.4	0.1
W	0.1	0.1	0.1	0.1	0.1							0.4	0.1
WNW	0	0.1	0.1	0.1	0.1							0.4	0.1
NW	0.1	0.1	0.1	0.1	0.1							0.4	0.1
NNW	0.1	0	0.1	0.1	0.1							0.4	0.1
VARBL													
CALM													
	20.1	20.1	20.1	11.0	0.7							10.0	0.1

TOTAL NUMBER OF OBSERVATIONS 101

SMOS

4

14108-422

1075

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 1961-1962 MONTH 1  
CLASS AL HOURS 11.5  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0	0	0	0	0	0	0
VARBL													
CALM													
	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



4

FORM 1-7

1225

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
	CLASS		HOURS LST
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•	•	•	•							•	•
NNE	•	•	•	•	•							•	•
NE	•	•	•	•	•							•	•
ENE	•	•										•	•
E	•											•	•
ESE	•	•										•	•
SE		•										•	•
SSE	•	•	•									•	•
S	•	•	•	•								•	•
SSW	•	•	•	•								•	•
SW	•	•	•	•								•	•
WSW	•	•	•	•								•	•
W	•	•	•	•								•	•
WNW	•	•	•	•								•	•
NW	•	•	•	•								•	•
NNW	•	•	•	•								•	•
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



As a result of the above, the authors have concluded that the use of the proposed model is not only feasible but also effective in predicting the behavior of the system. The model can be used to predict the behavior of the system under various conditions and parameters. The model can be used to predict the behavior of the system under various conditions and parameters.

[illegible]

## STATION

STATION NAME

Y1A03

NOTE

CLASS

HOURS: 5-9

## CONCLUSION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

**SMOS**

4

DATA WEATHER STATION  
 NAME  
 LOCATION

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
 CLASS \_\_\_\_\_  
 CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
YARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

National Weather Service  
 Department of Commerce  
 Washington, D.C. 20541

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION AND SPEED  
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS

DATE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
NAVY DEPARTMENT  
WASHINGTON, D. C.

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

CLASS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56		
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

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CLASS

NOV 25 1977

### CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
OBTAINMENT  
APPROVED

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	.	.	.	.	.	.	.	.	.	.	.	.
NNE	.	.	.	.	.	.	.	.	.	.	.	.
NE	.	.	.	.	.	.	.	.	.	.	.	.
ENE	.	.	.	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.	.	.	.
ESE	.	.	.	.	.	.	.	.	.	.	.	.
SE	.	.	.	.	.	.	.	.	.	.	.	.
SSE	.	.	.	.	.	.	.	.	.	.	.	.
S	.	.	.	.	.	.	.	.	.	.	.	.
SSW	.	.	.	.	.	.	.	.	.	.	.	.
SW	.	.	.	.	.	.	.	.	.	.	.	.
WSW	.	.	.	.	.	.	.	.	.	.	.	.
W	.	.	.	.	.	.	.	.	.	.	.	.
WNW	.	.	.	.	.	.	.	.	.	.	.	.
NW	.	.	.	.	.	.	.	.	.	.	.	.
NNW	.	.	.	.	.	.	.	.	.	.	.	.
VARBL	.	.	.	.	.	.	.	.	.	.	.	.
CALM	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



4

NAVY WEATHER SERVICE  
DETACHMENT  
ASHBURNHAM, MA

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_  
CONDITION \_\_\_\_\_  
MONTH \_\_\_\_\_  
HOURS \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVY AND MARINE CORPS  
1. FORM NO. 1  
2. 1-60 (REV. 1-59)  
3. 1-59

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ CLASS \_\_\_\_\_ MONTH \_\_\_\_\_  
 COORDINATE \_\_\_\_\_ HOURS L.S.T. \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



NOCD, Federal Building  
Asheville, N. C.

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NKS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{5}{16}$	$\geq 0$
NO CEILING															
1800															
1500					91.0										92.6
1200															
1000															
900															
800															
700															
600															
500										97.4					98.1
400															
300															
200															
100					95.4		96.9			98.3					100.0
0															

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
 For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
 Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
 Visibility  $\geq 3$  miles = 95.4%.  
 Visibility  $\geq 2$  miles = 96.9%.  
 Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10  
Scattered converted to 3/10  
Broken converted to 9/10  
Overcast converted to 10/10  
Obscured converted to 10/10

NAVAL WEATHER SERVICE FORM NO. 10-1

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NUMBER OF

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DISPATCHED BY

NAVAL WEATHER SERVICE FORM NO. 10-1 (REV. 1-64)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 10-1 (REV. 1-64)

# CEILING VERSUS VISIBILITY

NAWCE No. 41 (Revised 1-1-67) (Form 127) (Rev. 1-1-67)

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE ONLY

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1	≥ .4	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
5000															
4500															
4000															
3500															
3000															
2500															
2000															
1800															
1500															
1200															
1000															
900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
6000														
5000														
4500														
4000														
3500														
3000														
2500														
2000														
1800														
1500														
1200														
1000														
900														
800														
700														
600														
500														
400														
300														
200														
100														
0														

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1600																
1400																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

$$\Delta \bar{H}_{\text{f}}^{\circ}(\text{kJ mol}^{-1}) = -890.7 + 2(-167.5) + (-241.8) - (-110.5) = -1369.5$$

## STATION

STATION NAME

71499

## NOTES

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]

TOTAL NUMBER OF OBSERVATIONS

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$$A_{\text{eff}} = \frac{A_{\text{ref}}}{\left( \frac{1}{\text{SNR}} + \frac{1}{\text{SNR}_{\text{ref}}} \right)} \quad (1)$$

MON 14

405



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING															
$\geq 20000$															
IV $\geq 18000$															
IV $\geq 16000$															
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IV $\geq 600$															
IV $\geq 500$															
IV $\geq 400$															
IV $\geq 300$															
IV $\geq 200$															
IV $\geq 100$															
IV $\geq 0$															

TOTAL NUMBER OF OBSERVATIONS

UNCLASSIFIED

NAVY WEATHER SERVICE DETACHMENT WAREHOUSE, IN

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
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IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DATE OF REPORT

NO. 1 WEATHER SERVICE DETACHMENT, WHEELING, MD.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 20000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

TOTAL NUMBER OF OBSERVATIONS

NO. 1 WEATHER SERVICE DETACHMENT, WHEELING, MD.

NAVY WEATHER SERVICE DETACHMENT, ASH VILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING															
$\geq 23000$															
IV IV 18000															
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IV IV 14000															
IV IV 12000															
IV IV 10000															
IV IV 9000															
IV IV 8000															
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IV IV 5000															
IV IV 4500															
IV IV 4000															
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IV IV 1200															
IV IV 1000															
IV IV 900															
IV IV 800															
IV IV 700															
IV IV 600															
IV IV 500															
IV IV 400															
IV IV 300															
IV IV 200															
IV IV 100															
IV IV 0															

TOTAL NUMBER OF OBSERVATIONS

DRY VOLUME MET



NAVAL WEATHER SERVICE ATTACHMENT NO. 10

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 100-AN-21-1-10-5

NATIONAL WEATHER SERVICE WASHINGTON, D.C. 20540

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURLY OBS.

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING															
IV 20000															
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IV 9000															
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IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-67 (REV. 1-67)

NAVAL WEATHER SERVICE ATTACHMENT 10-10-10

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA ACQUISITION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
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300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RELEASE

NAME OF WEATHER STATION (OFFICIAL NAME)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
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≥ 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL WEATHER STATION

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

APPROVED AND FORWARDED

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
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TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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TOTAL NUMBER OF OBSERVATIONS

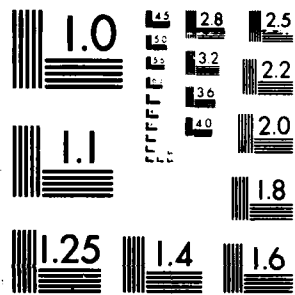


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UNCLASSIFIED

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1700																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS L E T

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	5/16	¼	0
NO CEILING	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
≥ 20000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
18000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
14000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1800	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1200	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
1000	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
900	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
800	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
700	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
600	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
500	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
400	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
300	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
200	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 1	≥ 0
NO CEILING	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
≥ 20000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 18000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 16000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 14000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 12000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 10000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 9000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 8000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 7000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 6000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 5000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 4500	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 4000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 3500	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 3000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 2500	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 2000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 1800	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 1500	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 1200	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 1000	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 900	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 800	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 700	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 600	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 500	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 400	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 300	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 200	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 100	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
IV 0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1

TOTAL NUMBER OF OBSERVATIONS

24

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 20000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 18000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 16000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 14000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 12000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 10000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 9000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 7000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 2500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 1800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 1500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 1200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 900	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 700	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
IV 0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS 11 5 1

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 20000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 18000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 16000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 14000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 12000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 10000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 9000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 8000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 7000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 6000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 5000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 4500	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 4000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 3500	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 3000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 2500	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 2000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 1800	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 1500	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 1200	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 1000	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 900	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 800	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 700	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 600	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 500	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 400	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 300	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 200	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 100	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	¼	0
NO CEILING	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 20000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 18000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 16000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 14000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 12000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 10000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 9000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 8000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 7000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 6000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 5000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 3500	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 3000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 2500	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 2000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 1800	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 1500	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 1200	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 1000	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 900	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 800	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 700	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 600	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 500	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 400	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 300	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 200	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 100	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 20000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 18000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 16000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 14000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 12000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 10000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 9000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 6000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 5000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 4500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 3500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 2500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 900	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	½	≥ 5 16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 0505

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq 0$	
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 20000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEAN:MET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DHNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH POINT

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

NO. NAVAL WEATHER SERVICE DETACHMENT, ASHLEIGH POINT

NAVAL WEATHER SERVICE DETACHMENT ASHKEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	
NO CEILING																
IN 20000																
IN 18000																
IN 16000																
IN 14000																
IN 12000																
IN 10000																
IN 9000																
IN 8000																
IN 7000																
IN 6000																
IN 5000																
IN 4500																
IN 4000																
IN 3500																
IN 3000																
IN 2500																
IN 2000																
IN 1800																
IN 1500																
IN 1200																
IN 1000																
IN 900																
IN 800																
IN 700																
IN 600																
IN 500																
IN 400																
IN 300																
IN 200																
IN 100																
IN 0																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL USE AND NOT TO BE REPRODUCED

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET 52005



NAVAL WEATHER SERVICE DETACHMENT AIRFIELD NO.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 85-1

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRECTION OF WIND

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT ASHLEVECE, NC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5-16	≥ 1	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVJCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{5}{16}$	$\geq 0$
NO CEILING																
$\geq 20000$																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
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IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS IN YEAR

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 5/16$	$\geq \frac{1}{8}$	$\geq 0$
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
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IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SVOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

4

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 20000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 18000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 16000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 14000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 12000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 10000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 9000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 6000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 5000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 4500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 3500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 2500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 900	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
IV 0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
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1800																
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1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVCEANMET SMPS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq 0$
NO CEILING															
20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
6000															
5000															
4500															
4000															
3500															
3000															
2500															
2000															
1800															
1500															
1200															
1000															
900															
800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 5MOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 5705



NATIONAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT KOREA

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 0$	
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 20000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

TOTAL NUMBER OF OBSERVATIONS

SOPNAVZCEANMET 0505

NAVAL WEATHER SERVICE DETACHMENT AGHRIVILLE, AL.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVY WEATHER SERVICE DETACHMENT, ARLINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAV OCEAN MET 10725

NAVAL WEATHER SERVICE DETACHMENT, ASHLEVEILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURE L S Y

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET 0005

NAVAL WEATHER SERVICE DETACHMENT, A. H. H. H. H. H.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/10	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV IV 18000																
IV IV 16000																
IV IV 14000																
IV IV 12000																
IV IV 10000																
IV IV 9000																
IV IV 8000																
IV IV 7000																
IV IV 6000																
IV IV 5000																
IV IV 4500																
IV IV 4000																
IV IV 3500																
IV IV 3000																
IV IV 2500																
IV IV 2000																
IV IV 1800																
IV IV 1500																
IV IV 1200																
IV IV 1000																
IV IV 900																
IV IV 800																
IV IV 700																
IV IV 600																
IV IV 500																
IV IV 400																
IV IV 300																
IV IV 200																
IV IV 100																
IV IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET 5505

# CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
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IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAV GULANDET 5MOS

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
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IV 4500															
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IV 3500															
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IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVUCCANMET 5MOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE FORM NO. 10-1 (REV. 1-57)

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY SET

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
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3500																
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600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE AND TIME OF SET

SMUS

NAVAL WEATHER SERVICE DETACHMENT WHEELER, TENN

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCENMET SMDS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE FORM NO. 10-1 (10-6-60)

4

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NO. OF STATIONS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANET 10-25

4

NAVAL WEATHER SERVICE DETACHMENT WHEELER, NE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCANMET SMOS

NATIONAL WEATHER SERVICE DETROIT, MICHIGAN

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq 0$	
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 20000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ARLINGTON

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
$\geq 20000$																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVCEANMET 05/15

NAVAL WEATHER SERVICE DETACHMENT WHEELER

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq 5/16$	$\geq \frac{1}{8}$	$\geq 0$
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\geq 20000$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 1700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE: MET - WMO

NATIONAL WEATHER SERVICE DETACHMENT, APO FUEBUE, NM

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MOUTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. 85-1-5-7

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVJCEANMET 5M05



# CEILING VERSUS VISIBILITY

NO. OF OBSERVATIONS: STATION: DATE: TIME: YEAR: MONTH: HOUR: MINUTE: SECOND: TENDERS: REMARKS:

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS: MINUTE: SECOND:

CEILING FEET	VISIBILITY: STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

STATION: DATE: TIME: YEAR: MONTH: HOUR: MINUTE: SECOND: TENDERS: REMARKS:

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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4500																
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3500																
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1000																
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800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

HOW MANY TIMES

$$A_{\alpha} = \sum_{i=1}^n \alpha_i A_i \in \mathcal{A} \quad \text{with} \quad \alpha_i \in \mathbb{R} \quad \text{and} \quad \alpha_i \geq 0 \quad \text{for} \quad i = 1, \dots, n \quad \text{and} \quad \alpha_1 + \dots + \alpha_n = 1$$

**MONTH**

MCLOS 2 5 7

TOTAL NUMBER OF OBSERVATIONS

• *Journal of the American Medical Association*, 1997; 277: 1033-1037

NAVAL WEATHER SERVICE FORM NO. 10-1 (REV. 1-61)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET 10-10-61

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
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3500																
3000																
2500																
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1800																
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1200																
1000																
900																
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700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE AND TIME OF OBSERVATION

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
9000															
8000															
7000															
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800															
700															
600															
500															
400															
300															
200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ARLINGHAM, MA

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - U.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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1200																
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800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SMOS

NATIONAL WEATHER SERVICE DETACHMENT A-111

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DATE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
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600												
500												
400												
300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

GRAPHIC SCALE

NATIONAL WEATHER SERVICE DETROIT MI 48201-1000

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCENMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHKEWILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq 0$	
NO CEILING	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
$\geq 20000$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 18000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 16000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 14000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 12000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 10000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 7000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 6000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 5000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 4000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 3000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 2000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 1000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 900	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 800	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 700	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 600	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 500	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 400	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 300	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 200	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 100	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
IV 0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANDET 11005

NAVAL WEATHER SERVICE DETACHMENT ADDRESS (SEE INSTRUCTIONS)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

WIND DIRECTION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATE AND TIME OF OBSERVATION

# CEILING VERSUS VISIBILITY

NAME OF STATION: \_\_\_\_\_

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

STATION: \_\_\_\_\_

AA. OTHER COMMENTS (STATION NAME)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
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IV 500																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

HOW OBTAINED

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING														
≥ 20000														
IN 18000														
IN 16000														
IN 14000														
IN 12000														
IN 10000														
IN 9000														
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IN 700														
IN 600														
IN 500														
IN 400														
IN 300														
IN 200														
IN 100														
IN 0														

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-67 (REV. 1-67)



NAVAL WEATHER SERVICE TAGHOMET AIRFIELD, NM

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

CHINA BUREAU OF METEOROLOGY

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE

NATIONAL WEATHER SERVICE DETACHMENT WASH DC FIELD

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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IV 9000																
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IV 7000																
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IV 700																
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IV 400																
IV 300																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE: MET STADS

NAVY WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0
NO CEILING															
≥ 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
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IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVCEANMET 5705

NATIONAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING															
≥ 20000															
18000															
16000															
14000															
12000															
10000															
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TOTAL NUMBER OF OBSERVATIONS

DIRNAV OCEAN MET 5MOS



NAVAL WEATHER SERVICE DETACHMENT, AHBVILLE, LA

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
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≥ 9000																
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≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WHEELER, N.M.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - 24

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
IN 20000														
IN 18000														
IN 16000														
IN 14000														
IN 12000														
IN 10000														
IN 9000														
IN 8000														
IN 7000														
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IN 700														
IN 600														
IN 500														
IN 400														
IN 300														
IN 200														
IN 100														
IN 0														

TOTAL NUMBER OF OBSERVATIONS

DIRNAVJOCEANMET 5MOS



NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
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IV 7000																
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IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DD FORM 1300, 1-60 (REV. 1-60)

NAVY WEATHER SERVICE DETACHMENT WHEATFIELD

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

WHEELS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

NAVY WEATHER SERVICE DETACHMENT WHEATFIELD

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ .	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
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200																
100																
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL RELEASE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

WINDS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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≥ 8000																
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≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1 (REV. 1-57)

NAVAL WEATHER SERVICE DATA REPORT FORM 13-71

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
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≥ 600																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
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0														

TOTAL NUMBER OF OBSERVATIONS

REPORTED BY

NAVAL WEATHER SERVICE FORM NO. 1-61

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

PERCENT

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
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≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

REMARKS

NAVAL WEATHER SERVICE REPORT FORM NO. 1-57

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

CONTINUED REPORT NO.



NAVAL WEATHER SERVICE DETACHMENT WHEELER, TEXAS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NUMBER OF

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

FORM 1-1-64 (REV. 1-63)

NATIONAL WEATHER SERVICE DETACHMENT WILSONVILLE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-57 (15)

NAVAL WEATHER SERVICE DETACHMENT A HICKLETON

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - 5 T

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ¼	≥ ¼	≥ ¼	≥ 16	≥ 0
NO CEILING																
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IV 18000																
IV 16000																
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IV 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET 0505

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

OPNAVJCEANMET 15M 15

NAVAL WEATHER SERVICE DETACHMENT WHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
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≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANDET 5405

NO. 1 WEATHER RECORD (Form 107-1)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

RELATIVE HUMIDITY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
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IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DERIVATIVE AND TOTALS

NAVAL WEATHER SERVICE FORM 10-1 (REV. 1-67)

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ 1	≥ ½	≥ ½	≥ ¼	≥ ¼	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRAVOCLANMET 5005

NAVAL WEATHER SERVICE DETACHMENT, WHEELER FIELD, N.H.

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

NO. OF



# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32
NO CEILING															
≥ 70000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
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≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

APPROVED AND FORWARDED

NAME OF STATION \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE \_\_\_\_\_

CEILING FEET	VISIBILITY - STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
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≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DATE PREPARED \_\_\_\_\_

NAME OF STATION: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DATE \_\_\_\_\_

CEILING FEET	VISIBILITY: STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
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TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAME OF STATION: \_\_\_\_\_

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

PERCENT

CEILING FEET	VISIBILITY, STATUTE MILES													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
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TOTAL NUMBER OF OBSERVATIONS

DATE

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DATE

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
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TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ADDITIONAL

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ ⅛	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
≥ 20000															
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200															
100															
0															

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAME OF STATION: \_\_\_\_\_

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS: \_\_\_\_\_

CEILING FEET	VISIBILITY: STATUTE MILES														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
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≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS: \_\_\_\_\_

NATIONAL WEATHER SERVICE - STATION NAME

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
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≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-57 (REV. 1-57)



NAVAL WEATHER SERVICE DETACHMENT, WHELEIGH, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURLY DATA

CEILING FEET	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
$\geq 20000$																
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IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
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IV 4500																
IV 4000																
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IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

STATION NUMBER

## CEILING VERSUS VISIBILITY

NOTES

HCMS

TOTAL NUMBER OF OBSERVATIONS

... (1) ...

NAVAL WEATHER SERVICE DETACHMENT, ASHLEVEILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
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IV 2000																
IV 1800																
IV 1500																
IV 1200																
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IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS

DEPARTMENT OF THE NAVY

STATION

STATION NAME

258-02

100

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

## 4

STATION NAME

PLR 55

## Notes

[illegible]11

NAVY/EASERVCOM

STATION

STAT.ON NAME

PERIOD

MCN:K

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS
		0	1	2	3	4	5	6	7	8	9		
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## 4

STATION NAME

FIG. 2.

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## SKY COVER

Fig. 1.  $\text{Cu}^{2+}$  ions.

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

[illegible]

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MONTH	HOURS LST	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER									MEAN TENTHS OF SKY COVER	NO. OF OBS.	
		0	1	2	3	4	5	6	7	8			9
JAN		.			.						.	.	
FEB		.			.						.	.	
MAR		.			.						.	.	
APR		.			.						.	.	
MAY		.			.						.	.	
JUN		.			.						.	.	
JUL		.			.						.	.	
AUG		.			.						.	.	
SEP		.			.						.	.	
OCT		.			.						.	.	
NOV		.			.						.	.	
DEC		.			.						.	.	
TOTAL		.			.						.	.	

450

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

NAVWEASERVCOM.

44

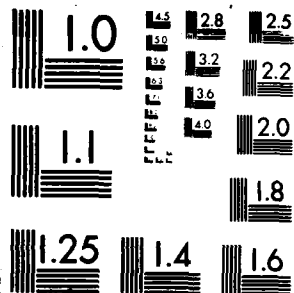
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The image shows a full-page view of a sheet of graph paper. The grid consists of approximately 20 columns and 18 rows of squares. In the bottom right corner, there is a small rectangular area containing a logo or text, which appears to be partially cut off or obscured by a dark artifact. The rest of the page is blank white space within the grid lines.



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

0 17	JACKSONVILLE, FLORIDA
STATION	STATION NAME

73-20

445

STATION

STATION NAME

PERIOD

**MONTH**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
Jan	01	34.7			36.7						19.1	10.5	7.8	23
	02	37.1			40.3						20.2	6.5	7.7	208
	03	22.2			39.1						33.1	5.5	4.7	24
	1	15.7			32.7						44.4	7.2	5.7	208
	11	17.7			27.6						49.6	12.1	6.3	248
	12	17.3			27.6						41.5	20.6	6.4	247
	13	14.5			21.7						30.7	25.0	6.7	247
	22	27.6			22.9						24.2	27.2	7.1	247
TOTALS		20.4			36.4						37.7	13.6	6.3	199

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## 4

77-2

NON?

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	21	22.6			17.6						20.6	19.6	6.7	24
	24	27.6			4.6						19.6	12.6	6.7	24
	27	17.6			17.6						20.6	16.6	6.6	24
	30	14.6			17.6						16.6	16.6	6.6	24
	1	16.6			16.6						46.6	20.6	6.6	24
	1	17.6			6.6						36.6	26.6	6.6	24
	10	16.6			22.6						16.6	20.6	6.7	24
	17	27.6			27.6						25.6	22.6	6.6	24
TOTALS		16.6			22.6						30.6	20.6	6.7	192

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## SKY COVER

JACKSONVILLE, FLORIDA

17-5.

STATION

STATION NAME

PERIOD

## MONTM

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
1	21	43.2			24.2						16.2	11.7	3.4	24
2	20	41.1			27.9						14.1	16.9	3.4	24
3	20.6				31.6						23.4	18.5	4.9	24
4	21.2				27.4						22.7	14.5	4.7	24
5	22.2				25.1						34.3	14.5	5.7	24
6	23				23.2						23.4	19.4	5.1	24
7	31.7				22.6						29.2	21.5	4.5	24
8	45				21.4						14.2	16.2	3.7	24
TOTALS		34.4			26.7						21.3	17.7	4.5	199

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348

72-62

454

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9	10		
MAY	01	41.7			19.2						14.6	24.6	4.3	240
	04	39.7			21.7						15.4	23.6	4.4	240
	07	28.3			24.3						21.7	23.6	5.2	240
	10	31.7			22.1						23.3	22.5	5.0	240
	13	27.7			25.4						31.7	20.0	5.5	240
	16	24.6			24.2						25.6	25.4	5.6	240
	19	35.4			22.5						20.9	21.3	4.7	240
	22	30.5			22.9						15.8	21.7	4.3	240
TOTALS		37.3			22.7						21.1	22.9	4.9	1920

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**NORTH**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
DEC	1	34.7			21.6						13.7	29.0	4.9	248
	2	35.5			17.3						11.7	25.4	7.1	248
	3	27.1			21.6						19.7	35.5	5.9	248
	4	27.8			20.2						16.9	35.1	5.6	248
	5	27.4			21.4						21.8	31.5	6.7	248
	6	22.2			27.7						24.2	30.6	5.9	248
	7	30.7			21.0						16.9	29.4	5.1	248
	22	37.7			21.0						12.9	28.7	4.6	248
TOTALS		15.7			20.8						17.1	31.9	5.3	1988

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# SKY COVER

STATION JACKSONVILLE, FLORIDA

72-2

ALL

STATION

STATION NAME

PERIOD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	29.7			19.6						19.4	32.6	5.6	1934
FEB		37.4			17.6						16.0	26.7	4.8	1808
MAR		23.4			27.4						31.1	26.2	6.2	1984
APR		37.0			27.0						20.9	19.1	4.5	1970
MAY		26.9			25.8						24.5	20.7	5.1	1934
JUN		26.7			25.6						30.6	20.0	5.5	1900
JUL		22.2			27.0						31.9	18.9	5.6	1884
AUG		22.4			30.4						33.7	13.6	5.3	1884
SEP		19.6			29.0						30.6	20.8	5.7	1920
OCT		34.4			26.7						21.3	17.7	4.5	1884
NOV		33.3			22.7						21.1	22.9	4.9	1920
DEC		30.3			20.8						17.1	31.9	5.3	1984
TOTALS		24.7			24.7						24.2	22.6	5.2	23376

NAVWEASERVCOM

NOCD, Federal Building  
Asheville, N. C.

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all months and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

- 4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
- 5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
- 6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

# DAILY TEMPERATURES

STATION NAME STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
10					2.1	6.7	15.7	27.2	42.7	57.3	72.8	87.2	97.9
11					21.3	40.6	67.5	89.5	97.7	99.3	99.7	99.9	99.9
12		1.4	11.2	25.3	59.7	84.4	93.1	99.3	99.7	99.9	99.9	99.9	99.9
13		11.2	25.3	59.7	84.4	93.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9
14		25.3	59.7	84.4	93.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9
15		59.7	84.4	93.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
16		84.4	93.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
17		93.1	99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
18		99.3	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
19		99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
20		99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
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99													
100													
MEAN	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
S.D.	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
TOTAL OBS.	117	117	117	117	117	117	117	117	117	117	117	117	117

NAVWEASERVCOM

# DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
11							1.0	1.4					
12							2.4	4.8					
13							7.2	8.6					
14							9.6	9.6					
15							13.0	17.4					
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100													
MEAN	4.1	4.0	3.7	4.1	5.1	7.0	7.6	7.4	5.8	4.4	2.8	2.0	4.1
S.D.	1.0	1.0	.9	1.0	1.1	1.1	1.4	1.3	1.0	.9	.8	.7	1.0
TOTAL OBS	11	11	11	11	11	11	11	11	11	11	11	11	11

NAVWEASERVCOM

# DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
10													
11													
12													
13													
14													
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TOTAL OBS													

NAVWEASERVCOM

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION		STATION NAME		YEARS		MONTH					
MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
F	C	F	C	F	C	DATE	F	C	F	C	DATE
1	14.3	47.7	15.7	5	27.7	1976	46.7	7.1	44	-1.7	1971
2	13.2	55.8	14.4	5	27.7	1977	46.7	7.1	44	-1.7	1971
3	13.6	56.5	12.9	2	26.7	1978	46.7	7.1	44	-1.7	1971
4	13.7	56.7	12.1	8	27.0	1973	46.7	7.1	44	-1.7	1971
5	13.7	56.7	12.1	8	26.4	1972	47.7	7.1	44	-1.7	1971
6	14.2	57.6	16.3	6	26.0	1973	47.7	7.1	44	-1.7	1971
7	13.7	56.7	19.3	6	27.5	1974	46.7	7.1	44	-1.7	1971
8	13.7	56.7	17.7	7	26.1	1946	45.7	7.1	44	-1.7	1971
9	12.5	54.5	18.1	5	20.0	1970	44.4	6.0	42	-7.1	1970
10	12.7	54.9	17.2	5	29.1	1974	45.7	7.1	44	-1.7	1971
11	12.1	53.8	17.1	8	27.7	1974	44.7	7.1	44	-1.7	1971
12	12.7	54.9	17.3	5	27.9	1973	45.7	7.1	44	-1.7	1971
13	12.7	54.9	17.7	5	27.4	1972	44.7	7.1	44	-1.7	1971
14	13.0	55.4	18.2	3	27.0	1953	46.7	7.1	44	-1.7	1971
15	13.2	55.8	18.4	5	26.0	1974	46.1	7.1	44	-1.7	1971
16	12.6	54.7	18.4	6	26.4	1974	44.4	6.0	42	-1.7	1971
17	11.7	53.1	17.7	3	26.7	1947	43.3	6.0	42	-1.7	1971
18	13.6	56.5	17.7	5	26.7	1973	45.4	7.1	44	-1.7	1971
19	13.6	56.5	18.7	5	27.8	1972	47.1	6.0	42	-1.7	1971
20	13.4	56.1	18.9	4	27.7	1982	45.7	7.1	44	-1.7	1971
21	13.1	55.6	18.5	8	27.4	1974	45.7	7.1	44	-1.7	1971
22	13.2	55.8	14.9	6	27.7	1974	45.7	7.1	44	-1.7	1971
23	13.0	55.4	19.1	8	26.7	1974	46.7	6.1	43	-1.7	1971
24	13.7	56.7	19.4	8	26.0	1974	46.3	7.1	44	-1.7	1971
25	13.2	55.8	18.6	6	26.5	1974	46.7	7.1	44	-1.7	1971
26	14.2	57.6	19.7	4	29.7	1974	47.7	7.1	44	-1.7	1971
27	14.4	57.9	20.2	8	29.4	1974	47.5	6.0	42	-1.7	1971
28	13.7	56.7	19.4	6	27.7	1974	46.5	6.1	43	-1.7	1971
29	12.7	54.9	18.2	6	28.1	1977	45.2	7.1	44	-1.7	1971
30	13.7	56.7	20.2	3	27.8	1970	45.7	7.1	44	-1.7	1971
31	13.9	56.9	19.4	8	28.9	1974	47.7	6.1	43	-1.7	1971
Monthly	13.2	55.7	18.7	2	30.5	1974	46.1	7.1	44	-1.7	1971

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FL WTA 1945-1962 FEB 24

STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	AVERAGE		AVERAGE	EXTREME				AVERAGE	EXTREME			
	F	C	F	C	F	C		F	C	F	C	
1	56.6	13.7	66.6	19.8	81	28.2	1957	46.5	8.1	35	-1.7	1957
2	56.7	13.8	66.1	18.9	81	28.2	1958	47.8	8.8	35	-3.9	1961
3	56.7	13.8	64.9	18.3	81	28.2	1974	46.5	8.1	35	-1.7	1961
4	48.7	12.2	68.9	17.7	81	28.2	1957	45.5	7.1	35	-3.9	1961
5	56.6	13.1	64.9	18.3	81	28.2	1957	46.4	8.2	35	-3.9	1967
6	56.7	14.5	67.5	19.7	81	27.8	1957	48.6	9.2	35	-1.7	1967
7	56.7	14.6	67.4	19.7	81	26.7	1974	49.1	9.4	35	-2.2	1977
8	56.7	12.8	64.4	18.7	81	27.8	1957	45.5	7.5	35	-3.1	1961
9	56.1	12.8	64.3	15.2	81	28.6	1982	45.4	7.4	35	-3.1	1971
10	56.7	13.1	65.5	18.8	81	28.3	1969	45.2	7.3	35	-2.2	1960
11	56.7	13.1	65.3	15.9	71	26.1	1965	45.1	7.2	35	-2.3	1960
12	56.7	13.2	66.2	19.0	81	27.8	1965	45.2	7.3	35	-2.3	1961
13	56.7	14.6	67.8	19.9	81	30.1	1949	46.6	8.1	35	-2.9	1960
14	56.7	14.6	68.8	20.4	81	29.4	1959	46.7	7.9	35	-1.1	1971
15	56.7	15.2	69.8	21.0	81	27.8	1945	48.9	9.4	35	1.1	1961
16	56.7	15.7	70.1	21.2	81	29.4	1965	50.5	10.8	35	1.1	1960
17	56.7	14.6	67.5	19.7	81	29.4	1971	49.9	9.9	35	-1.7	1960
18	56.7	14.6	67.5	19.7	81	29.4	1975	49.1	9.5	35	-4.4	1960
19	56.9	15.5	68.2	20.7	81	29.4	1975	50.6	10.3	35	-3.9	1964
20	56.7	15.0	68.4	20.2	81	26.7	1971	49.5	9.7	35	-1.1	1960
21	56.9	14.9	69.4	20.8	81	30.0	1953	48.4	9.1	35	-1.1	1977
22	56.7	14.6	68.8	20.4	81	30.7	1962	48.6	9.2	35	-1.7	1970
23	56.7	14.7	67.5	19.7	81	28.2	1962	49.5	9.7	35	-3.3	1970
24	56.7	15.3	69.5	20.8	81	31.7	1962	49.4	9.7	35	1.1	1960
25	56.7	14.6	68.1	20.7	81	27.4	1977	48.7	9.1	35	-1.7	1967
26	56.4	14.7	68.7	20.4	81	30.5	1962	48.2	9.0	35	-2.9	1967
27	56.1	15.1	69.6	20.9	81	26.8	1967	48.6	9.2	35	-1.1	1960
28	56.7	15.7	71.2	21.8	81	30.5	1962	49.4	9.7	35	1.7	1960
29	56.7	15.9	71.2	21.8	81	27.8	1949	50.1	10.1	35	2.2	1960
30												
31												
Monthly	57.7	14.3	67.6	19.8	80	21.7	1962	47.8	8.8	34	-4.4	1962

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FLORIDA 1945-1977

STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	F	C	F	C	F	C			F	C	F	C		
1	71.2	16.2	71.2	21.3	84	30.0	1971		51.1	10.6	35	1.7	1967	
2	71.1	16.2	71.7	22.1	87	30.6	1953		50.4	10.2	24	-2.2	1955	
3	71.4	16.3	72.0	22.2	87	30.6	1976		50.8	10.9	23	-3.0	1955	
4	71.7	16.6	71.7	22.1	86	29.4	1961*		52.1	11.2	20	-3.3	1957	
5	71.7	16.5	71.4	21.7	87	30.4	1976		52.1	11.2	20	-3.3	1957	
6	71.3	15.9	59.6	20.9	87	31.1	1977		51.7	10.9	21	-3.6	1957	
7	71.2	15.2	71.4	21.9	88	30.0	1956		51.0	10.6	23	-3.6	1957	
8	71.0	15.7	70.7	20.9	85	30.0	1974*		52.9	10.5	26	-2.2	1957	
9	70.8	15.1	59.0	20.6	85	31.1	1974		49.3	9.6	30	-2.2	1957	
10	71.4	16.3	72.0	22.2	90	33.3	1974		50.6	10.4	27	-2.8	1957	
11	70.2	17.3	74.3	23.5	90	32.7	1974		52.0	11.1	25	-2.3	1977	
12	70.1	15.8	76.9	24.9	90	33.7	1973		54.9	12.7	26	-2.2	1957	
13	70.3	15.5	75.4	24.1	89	31.1	1975*		55.1	12.8	40	-4.4	1957*	
14	70.1	15.1	74.7	23.7	89	31.1	1973		54.4	12.4	27	-2.8	1957	
15	70.4	15.6	74.3	23.5	89	31.1	1964*		54.5	12.5	24	-1.1	1957	
16	70.3	17.9	74.1	23.4	91	32.7	1945		54.5	12.5	29	-3.9	1959	
17	70.7	16.2	72.6	22.6	89	31.7	1945		52.1	11.2	27	-2.2	1947	
18	70.8	17.9	74.6	23.7	90	32.7	1945		53.4	11.9	28	-3.3	1957*	
19	70.3	15.5	75.4	24.1	87	30.6	1977*		55.7	12.9	24	-1.1	1975	
20	70.4	15.6	75.5	24.3	87	31.1	1945		55.1	12.8	26	-2.2	1957	
21	70.7	15.3	75.3	24.1	87	31.7	1977*		54.5	12.7	25	-1.7	1957	
22	70.4	17.4	73.5	23.1	89	29.4	1963*		53.3	11.8	20	-3.3	1957	
23	70.8	17.4	73.8	23.2	89	31.7	1952		52.7	11.6	41	-5.0	1957	
24	70.7	15.7	76.3	24.6	89	31.1	1975*		55.1	12.7	27	-2.8	1957	
25	70.2	15.7	70.9	24.3	91	32.7	1954		55.3	12.9	40	-4.4	1957	
26	70.5	15.1	75.1	23.9	87	30.6	1949*		54.7	12.2	27	-2.8	1975	
27	70.2	17.7	73.3	23.2	87	30.6	1945		53.9	12.2	23	-3.6	1955	
28	70.4	15.2	74.0	23.3	87	31.1	1949		54.8	12.7	27	-2.8	1955	
29	70.7	15.3	75.7	24.3	84	30.7	1977		57.7	14.3	24	-1.1	1955	
30	57.0	19.7	76.9	24.9	87	30.6	1977		58.1	14.5	41	-5.0	1955	
31	57.5	19.6	76.8	24.9	87	31.7	1974		59.3	14.6	29	-3.9	1957	
Monthly	70.0	17.6	71.7	23.2	90	33.7	1974*		53.5	11.9	23	-5.0	1957	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION JACKSONVILLE, FLORIDA

1945-1948

APRIL

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		
1	57.7	13.9	77.1	25.6	9	32.7	1974	57.7	14.3	44	6.7	1974
2	57.7	13.9	77.2	25.7	9	32.7	1977	58.5	14.7	44	7.0	1974
3	57.7	13.9	77.9	26.1	91	32.7	1945	57.7	14.2	44	6.7	1974
4	57.4	13.8	79.1	26.3	9	33.7	1974	59.6	15.3	44	6.4	1974
5	57.7	13.9	76.1	24.5	87	30.6	1974	57.8	14.3	44	6.6	1974
6	56.2	13.0	76.1	24.5	8	31.7	1947	56.4	13.6	44	6.7	1974
7	56.7	13.3	77.0	25.0	9	32.7	1947	56.7	13.6	44	6.4	1974
8	56.3	12.9	77.4	26.3	9	32.7	1972	56.1	14.5	44	6.4	1971
9	56.5	12.9	77.5	25.8	91	32.7	1978	58.5	14.9	44	7.2	1971
10	57.0	13.9	77.3	25.7	8	31.7	1946	56.2	14.6	43	6.1	1974
11	57.0	13.9	77.0	26.1	8	31.1	1962*	60.1	15.6	44	6.7	1974
12	57.0	13.9	77.6	26.4	9	32.7	1965*	60.7	15.9	44	6.6	1974
13	57.7	13.9	77.8	26.6	9	32.7	1974*	60.2	15.7	47	6.4	1973
14	57.7	13.9	78.9	26.1	9	33.7	1972	59.1	15.1	44	7.3	1965
15	57.7	13.9	79.3	26.3	9	33.7	1972	59.2	15.1	43	6.1	1974
16	57.7	13.9	77.1	25.6	9	33.7	1972	58.5	14.7	44	7.7	1964
17	57.7	13.9	79.5	26.4	8	31.7	1977	57.5	14.2	44	6.4	1974
18	57.9	14.1	78.4	26.9	8	31.7	1971*	59.5	15.3	44	9.4	1962
19	57.7	13.9	78.8	27.1	8	31.1	1981*	58.9	16.1	5	10.0	1962*
20	57.7	13.9	78.5	26.9	9	33.7	1972	61.2	16.2	5	10.0	1961
21	57.2	13.8	78.6	27.0	9	33.7	1972	61.9	16.6	5	10.0	1963
22	57.2	13.8	78.3	27.0	91	32.7	1972	60.7	16.7	47	8.3	1960
23	57.2	13.8	78.7	28.2	9	32.7	1983*	63.7	17.6	5	12.0	1966*
24	57.7	13.9	78.4	28.6	9	33.7	1958	64.1	17.8	57	13.9	1960*
25	57.7	13.9	78.4	27.4	9	33.7	1959	63.3	17.4	5	11.7	1960
26	57.1	13.8	78.0	27.1	9	32.7	1945	63.4	17.4	44	6.9	1974
27	57.1	13.8	78.3	27.7	8	31.7	1975*	62.5	16.9	44	6.7	1977
28	57.7	13.9	78.1	27.7	9	32.7	1948	61.6	16.4	44	7.2	1977
29	57.7	13.9	78.4	28.0	9	32.7	1975*	62.3	16.8	49	9.4	1984
30	57.1	13.8	78.8	28.0	9	32.7	1947	63.4	17.4	51	10.6	1973
31												
Monthly	57.7	13.9	78.3	26.6	9	33.0	1972*	60.1	15.6	44	6.4	1980*

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION JACKSONVILLE, FL 714  
STATION NAME

1955-1962

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	74.0	23.4	83.4	28.6	91	33.3	1961	64.7	18.3	54	12.2	1961
2	75.0	23.3	83.1	28.4	91	33.3	1959	64.7	18.2	53	12.0	1971
3	74.0	23.3	83.4	28.6	91	33.3	1959	64.6	18.1	47	8.3	1961
4	73.1	22.8	82.4	28.0	91	34.4	1958	63.8	17.7	50	10.0	1961
5	72.8	22.7	82.8	28.2	91	33.0	1959	62.9	17.1	51	10.0	1961
6	73.6	23.1	83.9	28.6	91	33.0	1963	63.7	17.4	53	11.7	1973
7	74.4	23.6	83.8	28.8	91	34.4	1977	64.9	18.3	53	11.7	1967
8	74.4	23.6	83.7	28.7	91	35.0	1959	65.7	18.3	52	11.1	1968
9	75.0	23.9	84.1	28.9	91	34.4	1962	66.7	18.9	51	11.7	1967
10	74.0	23.4	83.7	28.7	91	34.4	1963	64.8	18.2	51	10.6	1967
11	75.1	23.9	84.4	29.1	91	35.6	1973	65.6	18.8	51	10.6	1967
12	75.0	23.9	84.5	29.2	91	35.6	1973	65.6	18.7	52	10.8	1961
13	75.0	24.0	84.7	29.3	91	35.6	1967	65.6	18.7	49	8.4	1961
14	75.0	24.2	85.3	29.6	91	35.6	1967	65.7	18.7	52	11.1	1977
15	75.0	24.3	85.7	29.8	91	33.0	1967	65.8	18.8	53	12.0	1971
16	75.0	24.3	85.6	29.8	91	35.0	1963	66.1	18.9	57	13.4	1960
17	75.0	24.4	85.4	29.7	97	36.1	1963	66.7	19.1	50	11.1	1973
18	76.1	24.6	86.2	30.1	91	34.4	1963	67.0	19.4	57	13.9	1976
19	76.7	24.8	86.7	30.4	91	35.0	1962	66.7	19.3	54	12.0	1974
20	77.4	25.2	87.4	30.8	91	34.4	1962	67.3	19.6	52	11.1	1976
21	77.0	25.3	87.4	30.8	91	36.7	1962	67.6	19.9	53	11.7	1981
22	77.6	25.3	86.7	30.4	97	36.1	1953	66.6	20.3	47	6.3	1961
23	77.0	25.3	86.5	30.3	91	35.6	1953	68.5	20.3	41	6.9	1961
24	76.0	25.6	86.6	30.3	91	36.7	1953	69.7	20.7	51	14.4	1967
25	78.2	25.7	87.5	30.8	91	37.2	1953	68.8	20.4	53	10.0	1967
26	78.1	25.6	87.1	30.6	91	36.7	1953	68.9	20.5	46	6.9	1969
27	77.3	25.5	86.4	30.2	91	36.7	1962	69.7	20.7	53	11.7	1979
28	76.7	25.7	87.4	30.8	91	35.0	1967	69.2	20.7	61	16.1	1977
29	76.4	25.6	87.2	30.7	91	35.0	1965	69.7	20.9	60	15.6	1979
30	76.4	25.8	86.1	31.2	91	36.7	1965	69.8	20.4	51	10.4	1971
31	76.9	29.1	86.2	31.2	101	37.1	1965	69.7	20.9	60	15.6	1971
Monthly	76.0	24.4	85.5	29.7	101	37.2	1965	66.6	19.2	47	8.3	1981

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION JACKSONVILLE, FLORIDA

1945-1982

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	F	C	F	C	F	C	DATE	F	C	F	C	DATE
1	75.0	26.3	77.7	30.5	97	37.0	1945	70.5	21.6	65	18.9	1971
2	75.0	25.9	76.6	30.3	97	36.0	1954*	70.5	21.4	65	18.3	1972
3	74.1	26.2	78.2	31.2	97	36.0	1957	70.1	21.2	67	16.7	1965
4	75.0	26.2	77.0	30.6	97	36.6	1980*	71.4	21.9	67	19.4	1966
5	75.1	26.4	77.8	31.0	97	36.6	1987*	71.2	21.8	64	17.8	1972
6	75.1	26.1	77.4	30.8	97	36.6	1948	70.6	21.4	64	17.8	1971
7	75.1	26.3	77.9	31.1	97	36.0	1961	71.0	21.7	62	16.7	197
8	75.9	26.6	78.6	31.4	97	36.6	1954*	71.3	21.6	63	15.6	1967
9	75.1	26.9	79.1	31.7	97	37.0	1954	71.8	22.1	62	15.6	1976
10	75.7	27.1	79.6	32.0	97	37.0	1954	71.9	22.2	63	17.2	197
11	75.7	26.8	78.6	31.4	97	36.7	1957	72.1	22.3	62	16.7	196
12	75.7	27.0	79.4	31.9	97	36.1	1977*	71.9	22.1	63	17.2	197
13	76.2	27.3	79.6	32.2	100	36.9	1977	72.4	22.4	65	18.9	1975
14	76.9	27.2	79.6	32.0	100	37.8	1981	72.3	22.4	65	15.0	198
15	76.7	27.2	79.4	31.9	97	36.7	1981*	72.7	22.6	65	18.3	198
16	76.7	27.2	79.4	31.9	97	37.0	1981	72.6	22.6	66	18.9	1974
17	76.9	26.9	78.9	31.6	97	36.1	1981*	72.5	22.3	62	16.7	1981
18	76.7	27.1	79.2	31.8	97	36.7	1981*	72.7	22.3	62	16.7	1981
19	76.1	27.3	79.7	32.1	97	36.1	1979*	72.6	22.6	64	17.8	1965*
20	76.7	27.4	79.8	32.1	97	36.7	1950	72.8	22.7	64	17.8	1965
21	76.7	27.6	79.9	32.2	97	36.7	1972	73.6	23.1	62	16.7	1965
22	76.7	27.5	79.9	32.2	97	36.1	1950	73.1	22.8	66	15.9	1965
23	76.7	27.4	79.5	31.9	97	36.7	1981	73.2	22.9	69	20.6	1979*
24	76.7	27.4	79.7	32.1	97	37.0	1950	72.9	22.7	65	20.0	1972*
25	76.7	27.6	79.2	32.3	95	37.0	1952	73.0	22.8	68	20.0	1941
26	76.2	27.3	79.7	32.1	100	36.7	1952	72.4	22.7	66	18.9	1971
27	76.7	27.7	79.6	32.5	100	36.9	1952*	72.1	22.4	67	19.4	1974
28	76.1	27.6	79.3	32.4	100	37.4	1954	73.0	23.3	69	20.6	1974
29	76.1	27.4	79.5	31.9	97	36.7	1952	73.4	23.0	66	18.9	1974
30	76.0	27.8	79.7	32.6	100	37.0	1950	73.2	22.9	63	14.4	1951
31												
Monthly	76.7	27.1	79.1	31.7	100	36.7	1977*	72.2	22.3	64	14.4	1981

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FLORIDA  
STATION STATION NAME

1945-1942  
YEARS

JULY  
MONTH

DAY	MEAN TEMP AVERAGE		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	F	°C	AVERAGE	EXTREME	EXTREME	EXTREME		AVERAGE	EXTREME	EXTREME	EXTREME	
			F	°C	F	°C		F	°C	F	°C	
1	75.4	24.8	90.5	32.5	9	36.7	1978	73.4	23.1	65	18.3	1961
2	72.6	23.1	90.9	32.7	9	37.7	1957	74.7	23.4	60	20.0	1967
3	72.2	27.9	90.7	32.6	9	37.7	1953	73.6	23.1	71	21.1	1962
4	72.3	27.8	90.8	32.7	10	37.8	1979	73.2	23.0	66	18.9	1961
5	72.4	26.0	91.2	32.7	9	36.7	1979	73.6	23.1	67	19.4	1975
6	72.3	27.2	90.9	32.7	9	36.7	1957	73.3	23.2	66	18.9	1975
7	72.7	28.1	91.2	32.7	9	36.7	1977*	74.1	23.4	68	20.0	1947
8	71.7	27.7	90.0	32.2	9	36.7	1977	73.7	23.2	64	20.6	1964*
9	71.4	27.4	90.3	31.3	9	36.7	1962	73.6	23.1	64	20.6	1974
10	71.5	27.6	90.5	31.2	9	36.7	1957	73.8	23.2	63	20.0	1961
11	72.8	27.8	90.4	32.4	9	36.7	1951	73.5	23.1	70	21.1	1962*
12	72.4	28.0	91.3	32.3	10	37.8	1981*	73.6	23.1	70	21.1	1962*
13	72.7	28.1	90.8	32.7	10	37.8	1981	74.4	23.6	71	21.7	1961*
14	72.4	28.6	92.0	33.3	9	37.7	1981	74.8	23.8	71	21.1	1974*
15	72.4	28.6	91.5	33.1	10	38.7	1981	75.2	24.0	68	20.0	1974
16	72.7	28.3	91.8	32.8	9	37.7	1976	74.9	23.8	69	20.6	1962
17	72.6	28.0	90.7	32.6	10	37.8	1981	74.1	23.4	64	17.8	1961
18	72.2	27.9	90.2	32.3	9	37.8	1948	74.7	23.5	68	20.0	1977
19	72.2	27.9	90.4	32.4	9	36.7	1954	74.1	23.4	70	21.1	1962*
20	72.3	27.9	90.3	32.4	9	36.7	1953	74.3	23.7	69	20.6	1967
21	72.7	28.2	90.4	32.4	9	36.7	1952	74.9	23.6	69	20.6	1964
22	72.6	28.1	90.5	32.5	9	36.7	1977	74.5	23.8	69	20.0	1967*
23	72.7	28.2	90.8	32.7	9	36.7	1952	74.6	23.7	68	17.8	1965
24	72.8	28.3	91.1	32.8	9	37.7	1952	74.9	23.8	70	21.1	1962*
25	72.4	28.0	90.2	32.3	10	37.8	1952	74.5	23.6	69	20.6	1977
26	72.2	27.9	90.1	32.3	9	36.7	1977*	74.3	23.5	71	21.7	1967
27	72.2	28.3	91.3	32.3	9	37.7	1951	74.6	23.7	71	21.7	1978
28	72.2	28.2	90.9	32.7	9	36.7	1949	74.7	23.7	72	22.2	1961*
29	72.9	28.2	91.2	32.9	9	37.7	1949	74.4	23.6	71	21.7	1979*
30	72.7	28.2	91.4	32.7	9	36.7	1961	74.5	23.6	68	20.0	1974
31	72.7	28.1	90.9	32.7	9	36.7	1961	74.1	23.4	67	19.4	1972
Monthly	72.7	28.1	90.7	32.6	10	37.8	1981	74.2	23.4	64	17.8	1980*

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FLORIDA 1945-1982 AUGUST  
STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	82.4	28.0	91.6	32.4	90	33.7	1953		74.3	23.5	67	20.6	1953	
2	82.7	28.2	91.2	32.9	90	36.7	1951		74.7	23.4	64	20.6	1953	
3	82.7	28.2	91.3	32.9	90	37.7	1971		74.7	23.3	63	20.6	1971	
4	82.4	28.3	91.3	32.9	90	36.7	1954*		74.5	23.6	71	21.1	1953*	
5	82.7	28.2	91.3	32.9	90	37.7	1954		74.4	23.6	68	20.7	1951	
6	82.4	28.2	90.6	32.6	90	36.7	1954		74.3	23.5	69	20.6	1974*	
7	82.9	28.3	91.2	32.9	90	37.7	1956		74.7	23.7	69	20.9	1950	
8	82.4	28.2	91.0	32.8	90	36.7	1963*		74.7	23.7	70	21.1	1979	
9	82.7	28.1	90.9	32.7	90	36.7	1963		74.3	23.5	69	20.6	1960	
10	82.7	28.1	91.1	32.8	90	36.7	1963		74.7	23.3	69	20.6	1971	
11	82.4	28.1	91.2	32.9	90	36.7	1963		73.9	23.3	63	20.6	1974*	
12	82.3	27.9	90.3	32.4	89	37.7	1954		74.3	23.5	67	19.4	1971	
13	82.1	27.8	90.1	32.3	89	36.7	1963		74.1	23.4	69	20.6	1967	
14	82.2	27.9	90.1	32.3	89	35.1	1953		74.3	23.5	70	21.1	1976*	
15	82.3	27.9	90.0	32.2	89	35.6	1956		74.5	23.6	69	20.6	1976	
16	82.4	27.7	90.7	32.6	89	36.1	1958		74.1	23.4	67	19.4	1951	
17	82.6	28.1	90.7	32.6	100	37.9	1954		74.0	23.7	69	20.6	1974	
18	81.7	27.6	89.2	31.8	90	35.6	1975*		74.2	23.4	70	21.1	1953*	
19	82.3	27.6	89.8	32.1	89	37.7	1954		74.1	23.4	68	20.6	1971	
20	81.9	27.7	89.9	32.7	89	36.1	1980*		74.7	23.3	60	20.6	1972	
21	82.0	27.8	90.0	32.2	89	36.1	1980		73.9	23.3	66	19.9	1976	
22	82.1	27.8	90.0	32.2	89	36.7	1981		74.2	23.4	67	19.4	1973	
23	81.7	27.6	89.7	32.1	89	36.7	1965*		73.7	23.2	60	19.6	1970	
24	81.4	27.4	88.8	31.4	90	35.7	1982*		74.0	23.3	67	20.8	1957	
25	81.4	27.4	88.7	31.5	90	35.7	1982*		74.1	23.4	66	19.9	1981*	
26	81.7	27.6	89.6	32.0	90	35.6	1982*		73.9	23.3	68	20.0	1981	
27	81.4	27.4	88.9	31.6	100	37.9	1954		73.9	23.3	64	17.8	1969	
28	81.4	27.5	88.7	31.5	90	37.9	1954		74.3	23.5	68	20.0	1964	
29	81.5	27.5	88.7	31.5	97	36.1	1951		74.2	23.4	63	20.0	1968	
30	81.7	27.6	89.0	31.7	96	35.6	1948		74.5	23.6	70	21.1	1976*	
31	81.6	27.6	88.9	31.6	90	36.7	1954		74.3	23.5	69	20.6	1967	
Monthly	82.2	27.9	90.1	32.3	100	37.9	1954		74.2	23.4	60	19.6	1979	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FLORIDA 1945-1990  
STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		
	F	C	F	C	F	C	F	C	F	C	
1	71.3	22.4	89.3	31.7	9	36.7	1944	73.4	23.1	66	15.9
2	71.3	22.4	89.2	31.5	9	35.6	1970	73.4	23.1	66	15.9
3	70.7	22.1	88.2	31.2	9	36.1	1957	73.2	22.9	62	15.7
4	69.3	22.1	88.1	31.2	9	35.6	1951	73.6	23.1	65	15.3
5	70.7	22.1	86.0	31.1	9	35.6	1951	73.4	23.0	65	15.9
6	70.8	22.0	87.8	31.0	9	35.7	1947	73.3	22.9	67	15.4
7	70.4	22.7	87.4	30.3	9	35.2	1977	73.4	23.0	65	15.3
8	69.7	22.1	87.7	30.9	9	34.4	1980	73.7	23.3	61	16.1
9	70.1	22.9	87.9	31.1	9	35.6	1948	73.2	22.9	62	16.7
10	70.0	22.7	87.1	30.7	9	36.7	1945	72.9	22.7	65	15.3
11	70.9	22.6	87.2	30.7	9	36.7	1957	72.7	22.6	67	15.4
12	70.9	22.6	86.9	30.5	9	35.2	1967	73.7	22.8	62	16.7
13	70.7	22.5	87.4	30.8	9	35.4	1978	72.7	22.3	64	17.8
14	70.7	22.5	87.5	30.8	9	35.7	1945	71.9	22.2	64	17.6
15	70.7	22.3	86.3	30.2	9	35.4	1980	72.2	22.3	63	17.2
16	70.9	22.6	87.3	30.7	9	35.7	1972	72.6	22.6	64	17.5
17	70.2	22.4	87.6	30.9	9	35.7	1950	72.7	22.6	61	16.1
18	70.6	22.4	86.7	30.4	9	35.7	1958	72.5	22.5	65	15.5
19	70.4	22.4	87.2	30.7	9	35.7	1958	72.1	22.3	60	15.5
20	70.8	22.6	87.5	30.9	9	34.4	1955	72.6	22.2	67	15.4
21	70.1	22.7	87.2	30.7	9	35.6	1945	72.9	22.7	67	15.9
22	70.4	22.3	86.6	30.2	9	35.4	1955	72.2	22.3	63	15.6
23	70.6	22.7	85.3	29.6	9	35.2	1980	71.7	21.7	65	14.4
24	70.1	22.6	84.6	29.2	9	35.7	1951	71.6	22.7	62	16.7
25	70.4	22.2	84.1	28.9	9	35.7	1940	70.6	21.4	67	15.6
26	70.8	22.4	84.4	29.1	9	34.4	1980	71.2	21.6	59	15.0
27	70.4	22.2	84.5	29.2	9	34.4	1977	70.4	21.3	67	15.9
28	70.4	22.2	84.3	29.1	9	35.4	1977	70.4	21.3	62	16.7
29	70.1	22.1	84.2	29.0	9	32.9	1972	70.3	21.1	67	15.9
30	70.7	22.9	84.3	29.1	9	35.2	1959	69.6	20.9	65	12.4
31											
Monthly	70.6	22.4	86.7	30.4	9	36.7	1958	72.2	22.3	69	9.4

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION JACKSONVILLE, FLORIDA 1948-1950 YEARS MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	F	C	F	C	F	C		F	C	F	C	
1	76.4	24.7	74.5	24.2	91	33.3	1977*	69.3	20.7	51	11.7	1977
2	76.4	24.7	74.2	23.8	91	33.3	1979	68.6	20.3	51	11.7	1977
3	76.4	24.7	75.0	24.3	91	33.3	1972	67.8	19.9	51	11.7	1979
4	76.5	23.6	72.9	24.3	91	33.3	1971	67.2	19.6	51	11.7	1979
5	74.5	23.6	72.5	28.1	91	33.3	1971	66.6	19.2	41	5.0	1979
6	74.7	23.7	72.3	27.7	91	33.3	1971	67.1	19.5	41	5.0	1979
7	74.5	23.6	72.2	27.7	91	34.4	1971	66.3	19.3	41	5.0	1979
8	74.5	23.7	72.9	28.3	91	32.7	1976	66.4	19.1	41	5.0	1979
9	74.5	23.7	72.6	28.1	91	32.7	1959	66.6	19.2	51	11.7	1979
10	73.7	23.1	71.8	27.7	91	32.7	1982	65.2	18.4	51	11.7	1979
11	72.4	22.7	70.6	27.7	91	32.7	1959	65.1	18.4	51	11.7	1979
12	72.4	22.6	70.9	27.2	81	31.7	1959	64.2	17.9	51	11.7	1979
13	72.3	22.4	71.0	26.7	81	31.1	1959	64.6	18.1	41	5.0	1979
14	72.7	22.6	71.1	26.7	91	33.3	1945	64.9	18.3	41	5.0	1979
15	71.5	21.9	70.2	26.8	91	32.7	1971	62.5	17.1	41	5.0	1979
16	71.2	21.8	70.6	26.4	81	31.7	1966	62.9	17.2	41	5.0	1979
17	71.2	21.8	70.1	26.2	81	30.6	1980*	63.3	17.4	41	5.0	1979
18	70.7	21.5	70.2	26.2	81	31.7	1970*	62.1	16.7	31	5.0	1979
19	70.7	21.5	70.7	26.5	91	32.7	1981	61.7	16.5	41	5.0	1979
20	69.1	20.6	70.8	25.4	81	31.1	1950	60.3	15.7	41	5.0	1979
21	68.3	20.4	70.7	25.4	81	29.4	1982*	59.9	15.5	41	5.0	1979
22	70.1	21.2	73.8	25.8	81	30.7	1949*	61.7	16.5	41	5.0	1979
23	70.3	21.3	70.0	26.1	91	32.7	1942	61.5	16.4	41	5.0	1982*
24	69.7	20.9	70.4	25.9	81	31.7	1947	61.1	16.2	41	5.0	1979
25	69.3	20.7	70.7	25.4	81	30.7	1970*	60.8	16.0	41	5.0	1982
26	68.5	20.3	70.5	25.3	81	31.1	1949	59.5	15.3	41	5.0	1982
27	67.9	19.9	70.4	25.2	81	29.4	1981*	58.3	14.6	41	5.0	1982
28	69.1	20.6	70.6	25.3	81	30.6	1963	60.5	15.8	41	5.0	1979
29	67.6	19.8	70.8	24.3	81	30.6	1949	59.4	15.2	41	5.0	1979
30	67.7	19.8	70.5	24.2	81	30.6	1951	59.8	15.4	41	5.0	1979
31	66.2	20.2	70.4	24.7	81	30.6	1950	60.2	15.7	41	5.0	1963
Monthly	71.7	22.1	70.9	26.6	91	30.6	1959	63.4	17.4	31	3.3	1979

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

STATION: NAVAL WEATHER SERVICE DETACHMENT STATION NAME: ASHEVILLE NORTH CAROLINA YEARS: 1945-1973

DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP				DATE
	AVERAGE		AVERAGE	EXTREME				AVERAGE	EXTREME			
	F	C	F	°C	F	°C		F	C	F	°C	
1	57.4	14.1	77.2	25.1	87	31.1	1961*	52.5	11.4	47	8.1	1964
2	57.1	14.0	77.1	25.1	87	31.1	1971	50.1	10.1	47	8.1	1971
3	56.4	13.5	76.2	24.6	87	31.1	1972	57.6	14.2	71	2.1	1972
4	54.7	12.6	73.4	23.3	87	31.1	1972*	55.6	13.1	77	2.1	1972
5	53.4	12.4	73.3	22.9	87	31.1	1950	54.4	12.4	71	2.1	1950
6	54.5	12.5	73.5	23.1	87	31.1	1972*	55.6	13.1	77	2.1	1972
7	53.4	12.4	73.5	23.1	87	31.1	1966	54.4	12.4	77	2.1	1966
8	54.7	12.6	72.6	22.6	87	31.1	1946	54.1	12.3	74	1.1	1946
9	54.7	12.6	73.6	23.1	87	29.7	1973	54.1	12.4	77	2.1	1973
10	53.4	12.4	73.3	22.9	87	30.7	1948	54.4	12.4	77	2.1	1948
11	54.3	12.4	73.2	22.7	87	30.7	1946	54.4	12.4	77	2.1	1946
12	54.3	12.4	72.9	22.7	87	29.4	1966	55.1	12.8	77	2.1	1966
13	54.3	12.4	72.2	22.2	87	30.7	1972	54.4	12.7	77	2.1	1972
14	54.1	12.3	72.6	22.6	87	29.7	1973*	53.5	11.9	75	1.7	1973
15	54.3	12.4	73.9	23.3	87	28.9	1958*	53.9	12.2	77	2.1	1958
16	55.2	12.9	74.8	23.8	87	30.6	1958	55.6	13.1	77	2.1	1958
17	55.4	13.0	75.0	23.9	87	30.7	1957	55.9	13.3	77	2.1	1957
18	54.3	12.4	74.4	22.6	87	29.4	1972	55.2	12.9	76	1.1	1972
19	54.3	12.4	73.6	23.1	87	29.4	1953	54.7	12.2	74	1.1	1953
20	54.0	12.2	73.8	21.6	87	28.7	1964	53.3	11.8	76	2.1	1964
21	54.0	12.2	71.1	21.7	87	29.4	1973	52.1	11.2	73	1.1	1973
22	54.7	12.6	70.4	21.3	87	31.1	1973	50.9	10.5	74	1.7	1973
23	52.5	11.7	71.7	22.1	87	29.7	1960*	52.3	11.3	71	1.1	1960
24	52.4	11.6	72.1	22.3	87	29.7	1964*	52.9	11.6	77	2.1	1964
25	50.5	10.3	70.2	21.2	87	29.4	1973	50.9	10.5	71	1.1	1973
26	50.8	10.4	70.2	21.2	87	29.4	1941	49.4	9.7	76	2.1	1941
27	53.4	12.4	73.2	22.9	87	29.4	1943	53.1	11.7	77	2.1	1943
28	52.7	11.7	71.3	21.3	87	30.7	1973	54.1	12.3	73	1.1	1973
29	53.4	12.4	64.4	20.2	87	30.6	1978	47.7	9.8	75	1.1	1978
30	56.0	13.3	66.4	19.1	84	25.9	1973	47.5	8.6	70	1.1	1973
31												
Monthly	53.3	12.4	72.7	22.6	87	31.1	1973*	53.9	12.2	71	1.1	1973

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

JACKSONVILLE, FL - TWA

1945-1977

STATION

STATION NAME

ARS

REMARKS

DAY	MEAN TEMP		MAXIMUM TEMP				DATE	MINIMUM TEMP		REMARKS
	AVERAGE		AVERAGE		EXTREME			AVERAGE		
	F	C	F	C	F	C		F	C	
1	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
2	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
3	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
4	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
5	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
6	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
7	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
8	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
9	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
10	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
11	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
12	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
13	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
14	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
15	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
16	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
17	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
18	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
19	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
20	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
21	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
22	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
23	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
24	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
25	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
26	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
27	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
28	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
29	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
30	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
31	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71
Monthly	57.6	13.6	66.7	19.0	8	27.7	1952	49.6	7.1	71

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

TABLE 11-1  
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, N.C. STATION NAME ASHEVILLE, N.C. YEARS 1951-1959

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1		7	1	9	1	1	1	1	1	1	1	1	
2		7	1	9	1	1	1	1	1	1	1	1	
3		7	1	9	1	1	1	1	1	1	1	1	
4		7	1	9	1	1	1	1	1	1	1	1	
5		7	1	9	1	1	1	1	1	1	1	1	
6		7	1	9	1	1	1	1	1	1	1	1	
7		7	1	9	1	1	1	1	1	1	1	1	
8		7	1	9	1	1	1	1	1	1	1	1	
9		7	1	9	1	1	1	1	1	1	1	1	
10		7	1	9	1	1	1	1	1	1	1	1	
11		7	1	9	1	1	1	1	1	1	1	1	
12		7	1	9	1	1	1	1	1	1	1	1	
13		7	1	9	1	1	1	1	1	1	1	1	
14		7	1	9	1	1	1	1	1	1	1	1	
15		7	1	9	1	1	1	1	1	1	1	1	
16		7	1	9	1	1	1	1	1	1	1	1	
17		7	1	9	1	1	1	1	1	1	1	1	
18		7	1	9	1	1	1	1	1	1	1	1	
19		7	1	9	1	1	1	1	1	1	1	1	
20		7	1	9	1	1	1	1	1	1	1	1	
21		7	1	9	1	1	1	1	1	1	1	1	
22		7	1	9	1	1	1	1	1	1	1	1	
23		7	1	9	1	1	1	1	1	1	1	1	
24		7	1	9	1	1	1	1	1	1	1	1	
25		7	1	9	1	1	1	1	1	1	1	1	
26		7	1	9	1	1	1	1	1	1	1	1	
27		7	1	9	1	1	1	1	1	1	1	1	
28		7	1	9	1	1	1	1	1	1	1	1	
29		7	1	9	1	1	1	1	1	1	1	1	
30		7	1	9	1	1	1	1	1	1	1	1	
31		7	1	9	1	1	1	1	1	1	1	1	
32		7	1	9	1	1	1	1	1	1	1	1	
33		7	1	9	1	1	1	1	1	1	1	1	
34		7	1	9	1	1	1	1	1	1	1	1	
35		7	1	9	1	1	1	1	1	1	1	1	
36		7	1	9	1	1	1	1	1	1	1	1	
37		7	1	9	1	1	1	1	1	1	1	1	
38		7	1	9	1	1	1	1	1	1	1	1	
39		7	1	9	1	1	1	1	1	1	1	1	
40		7	1	9	1	1	1	1	1	1	1	1	
41		7	1	9	1	1	1	1	1	1	1	1	
42		7	1	9	1	1	1	1	1	1	1	1	
43		7	1	9	1	1	1	1	1	1	1	1	
44		7	1	9	1	1	1	1	1	1	1	1	
45		7	1	9	1	1	1	1	1	1	1	1	
46		7	1	9	1	1	1	1	1	1	1	1	
47		7	1	9	1	1	1	1	1	1	1	1	
48		7	1	9	1	1	1	1	1	1	1	1	
49		7	1	9	1	1	1	1	1	1	1	1	
50		7	1	9	1	1	1	1	1	1	1	1	
51		7	1	9	1	1	1	1	1	1	1	1	
52		7	1	9	1	1	1	1	1	1	1	1	
53		7	1	9	1	1	1	1	1	1	1	1	
54		7	1	9	1	1	1	1	1	1	1	1	
55		7	1	9	1	1	1	1	1	1	1	1	
56		7	1	9	1	1	1	1	1	1	1	1	
57		7	1	9	1	1	1	1	1	1	1	1	
58		7	1	9	1	1	1	1	1	1	1	1	
59		7	1	9	1	1	1	1	1	1	1	1	
60		7	1	9	1	1	1	1	1	1	1	1	
61		7	1	9	1	1	1	1	1	1	1	1	
62		7	1	9	1	1	1	1	1	1	1	1	
63		7	1	9	1	1	1	1	1	1	1	1	
64		7	1	9	1	1	1	1	1	1	1	1	
65		7	1	9	1	1	1	1	1	1	1	1	
66		7	1	9	1	1	1	1	1	1	1	1	
67		7	1	9	1	1	1	1	1	1	1	1	
68		7	1	9	1	1	1	1	1	1	1	1	
69		7	1	9	1	1	1	1	1	1	1	1	
70		7	1	9	1	1	1	1	1	1	1	1	
71		7	1	9	1	1	1	1	1	1	1	1	
72		7	1	9	1	1	1	1	1	1	1	1	
73		7	1	9	1	1	1	1	1	1	1	1	
74		7	1	9	1	1	1	1	1	1	1	1	
75		7	1	9	1	1	1	1	1	1	1	1	
76		7	1	9	1	1	1	1	1	1	1	1	
77		7	1	9	1	1	1	1	1	1	1	1	
78		7	1	9	1	1	1	1	1	1	1	1	
79		7	1	9	1	1	1	1	1	1	1	1	
80		7	1	9	1	1	1	1	1	1	1	1	
81		7	1	9	1	1	1	1	1	1	1	1	
82		7	1	9	1	1	1	1	1	1	1	1	
83		7	1	9	1	1	1	1	1	1	1	1	
84		7	1	9	1	1	1	1	1	1	1	1	
85		7	1	9	1	1	1	1	1	1	1	1	
86		7	1	9	1	1	1	1	1	1	1	1	
87		7	1	9	1	1	1	1	1	1	1	1	
88		7	1	9	1	1	1	1	1	1	1	1	
89		7	1	9	1	1	1	1	1	1	1	1	
90		7	1	9	1	1	1	1	1	1	1	1	
91		7	1	9	1	1	1	1	1	1	1	1	
92		7	1	9	1	1	1	1	1	1	1	1	
93		7	1	9	1	1	1	1	1	1	1	1	
94		7	1	9	1	1	1	1	1	1	1	1	
95		7	1	9	1	1	1	1	1	1	1	1	
96		7	1	9	1	1	1	1	1	1	1	1	
97		7	1	9	1	1	1	1	1	1	1	1	
98		7	1	9	1	1	1	1	1	1	1	1	
99		7	1	9	1	1	1	1	1	1	1	1	
100		7	1	9	1	1	1	1	1	1	1	1	
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME STATION NUMBER YEARS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1													
2													
3													
4													
5													
6													
7													
8													
9													
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11													
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93													
94													
95													
96													
97													
98													
99													
100													
MEAN	7.7	1.7	2.3	19.1	13.6	10.1	7.4	9.1	42.6	20.4	21.2	79.5	97.1
S.D.	5.1	1.4	1.4	1.9	2.0	1.1	1.1	1.1	2.3	1.1	1.1	1.1	1.1
TOTAL OBS	111	104	117	111	117	111	114	117	111	111	114	117	116

SMOS

## EXTREME VALUES

[illegible]

42-3750-10

YEARS

1. *Chlorophyll a* (Chl *a*)  
 2. *Chlorophyll b* (Chl *b*)  
 3. *Chlorophyll c* (Chl *c*)  
 4. *Chlorophyll d* (Chl *d*)  
 5. *Chlorophyll e* (Chl *e*)  
 6. *Chlorophyll f* (Chl *f*)  
 7. *Chlorophyll g* (Chl *g*)  
 8. *Chlorophyll h* (Chl *h*)  
 9. *Chlorophyll i* (Chl *i*)  
 10. *Chlorophyll j* (Chl *j*)  
 11. *Chlorophyll k* (Chl *k*)  
 12. *Chlorophyll l* (Chl *l*)  
 13. *Chlorophyll m* (Chl *m*)  
 14. *Chlorophyll n* (Chl *n*)  
 15. *Chlorophyll o* (Chl *o*)  
 16. *Chlorophyll p* (Chl *p*)  
 17. *Chlorophyll q* (Chl *q*)  
 18. *Chlorophyll r* (Chl *r*)  
 19. *Chlorophyll s* (Chl *s*)  
 20. *Chlorophyll t* (Chl *t*)  
 21. *Chlorophyll u* (Chl *u*)  
 22. *Chlorophyll v* (Chl *v*)  
 23. *Chlorophyll w* (Chl *w*)  
 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
 30. *Chlorophyll ad* (Chl *ad*)  
 31. *Chlorophyll ae* (Chl *ae*)  
 32. *Chlorophyll af* (Chl *af*)  
 33. *Chlorophyll ag* (Chl *ag*)  
 34. *Chlorophyll ah* (Chl *ah*)  
 35. *Chlorophyll ai* (Chl *ai*)  
 36. *Chlorophyll aj* (Chl *aj*)  
 37. *Chlorophyll ak* (Chl *ak*)  
 38. *Chlorophyll al* (Chl *al*)  
 39. *Chlorophyll am* (Chl *am*)  
 40. *Chlorophyll an* (Chl *an*)  
 41. *Chlorophyll ao* (Chl *ao*)  
 42. *Chlorophyll ap* (Chl *ap*)  
 43. *Chlorophyll aq* (Chl *aq*)  
 44. *Chlorophyll ar* (Chl *ar*)  
 45. *Chlorophyll as* (Chl *as*)  
 46. *Chlorophyll at* (Chl *at*)  
 47. *Chlorophyll au* (Chl *au*)  
 48. *Chlorophyll av* (Chl *av*)  
 49. *Chlorophyll aw* (Chl *aw*)  
 50. *Chlorophyll ax* (Chl *ax*)  
 51. *Chlorophyll ay* (Chl *ay*)  
 52. *Chlorophyll az* (Chl *az*)  
 53. *Chlorophyll aza* (Chl *aza*)  
 54. *Chlorophyll abz* (Chl *abz*)  
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SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION JACKSONVILLE, FLORIDA

45-5

YEARS

WIND SPEEDS FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
46			50	51	53	71	73	71	71	50	70	32	
46	76	32	47	53	64	66	72	70	67	56	48	41	74
47	33	26	29	54	50	68	68	72	62		43	40	
48	23	34	45	54	62	62	70	71	66	52	47	36	21
48	21	46	77	50	50		71	71	61	62	38	36	
49	44	34	38		51	70	63	65	65	50	21	27	
50	31	21	37	45	58	67	70	72	67	53	34	20	
51	32	30	42	44	56	70	71	69	68	43	30	30	30
52	73	7	45	50	42	71	71	71	66	47	41	20	21
54	35	41	73	51	57	65	71	72	70	47	30	30	21
55	31	21	73	52	59	65	73	73	69	48	30	31	21
56	29	41	70	49	62	66	72	71	57	53	22	34	21
57	30	40	37	50	53	71	70	66	69	40	40	22	21
58	24	24	39	50	52	65	71	70	69	30	40	33	21
59	20	41	40	45	64	69	71	73	68	50	30	35	21
60	27	32	31	50	53	62	72	7	71	51	4	24	24
61	27	37	39	42	54	62	71	61	56	44	43	24	21
62	24	30	32	42	57	70	69	71	58	40	37	14	14
63	25	31	40	45	58	67	72	74	64	44	36	24	21
64	21	34	41	44	56	71	69	71		40	41	32	
65	25	30	36	50	54	60	64	60	67	47	60	32	24
66	20	29	30	50	60	64	72	71	52	52	37	30	21
67	35	20	44	40	58	67	68	64	55	52	40	35	21
68	29	32	32	53	57	67	70	66	69		22	20	
69	34	34	39	54	55	67	73	64	68	50	30	34	21
70	19	25	39	52	54	60	68	72	63	56	28	29	10
71	25	30	36	40	50	64	74	60	64	54	42	45	24
72	33	35	41	48	60	64	67	67	50	49	41	32	30
73	31	33	40	44	52	65		67	70	41	44	24	
74	51	27	41	43	54	66	68	69	62	46	35	27	27
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
FROM DAILY OBSERVATIONS

STATION JACKSONVILLE, FLORIDA

41-51

YEARS

WIND SPEEDS IN KNOTS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
19	19	17	12	47	57	64	78	88	89	40	12	21	21
20	20	21	41	44	72	60	7	60	43	44	17	7	7
21	21	21	36	41	52	50	49	77	66	38	39	27	27
22	22	26	12	45	55	61	71	65	74	44	43	17	17
23	22	27	37	45	46	66	71	61	67	40	31	31	31
24	31	21	33	47	56	59	64	60	66	41	30	30	30
25	14	21	34	40	47	58	65	60	69	44	36	31	31
26	10	24	36	41	51	66	72	60	77	40	40	31	31
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100													
MEAN	7.6	2.4	17.6	47.4	56.2	66.0	70.8	69.3	60.4	40.4	30.7	30.5	24.7
S D	4.34	5.51	5.122	4.609	4.181	3.354	2.470	2.660	5.013	5.444	6.280	6.755	4.852
TOTAL OBS	1147	1049	1171	1111	1117	1110	1147	1173	1110	1116	1140	1178	13037

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

STATION NAME TEMPERATURE  
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEARS 45-50

ALL DEGREES FAHRENHEIT  
/ ALL IN LBS PER FULL MONTH

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1950													MIN TEMP MAX TEMP CAYS
1951													MIN TEMP MAX TEMP CAYS
1952													MIN TEMP MAX TEMP CAYS
1953													MIN TEMP MAX TEMP CAYS
1954													MIN TEMP MAX TEMP CAYS
1955													MIN TEMP MAX TEMP CAYS
1956													MIN TEMP MAX TEMP CAYS
1957													MIN TEMP MAX TEMP CAYS
1958													MIN TEMP MAX TEMP CAYS
1959													MIN TEMP MAX TEMP CAYS
1960													MIN TEMP MAX TEMP CAYS
1961													MIN TEMP MAX TEMP CAYS
1962													MIN TEMP MAX TEMP CAYS
1963													MIN TEMP MAX TEMP CAYS
1964													MIN TEMP MAX TEMP CAYS
1965													MIN TEMP MAX TEMP CAYS
1966													MIN TEMP MAX TEMP CAYS
1967													MIN TEMP MAX TEMP CAYS
1968													MIN TEMP MAX TEMP CAYS
1969													MIN TEMP MAX TEMP CAYS
1970													MIN TEMP MAX TEMP CAYS
1971													MIN TEMP MAX TEMP CAYS
1972													MIN TEMP MAX TEMP CAYS
1973													MIN TEMP MAX TEMP CAYS
1974													MIN TEMP MAX TEMP CAYS
1975													MIN TEMP MAX TEMP CAYS
1976													MIN TEMP MAX TEMP CAYS
1977													MIN TEMP MAX TEMP CAYS
1978													MIN TEMP MAX TEMP CAYS
1979													MIN TEMP MAX TEMP CAYS
1980													MIN TEMP MAX TEMP CAYS
MEAN													
S D													
TOTAL OBS													

SMOS

## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

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## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

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NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

STATION NAME:

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W. J. S. S.

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## PSYCHROMETRIC SUMMARY

STATION NAME

TEARS

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## PSYCHROMETRIC SUMMARY

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## NAVWEASERVCOM

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## PSYCHROMETRIC SUMMARY

STATION NAME

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## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

STATION NAME

222

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

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NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

STATION NAME

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## PSYCHROMETRIC SUMMARY

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## PSYCHROMETRIC SUMMARY

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

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## PSYCHROMETRIC SUMMARY

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

## NOTES

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# MEANS AND STANDARD DEVIATIONS

— DRY TEMPERATURES DERIVED FROM HOURLY OBSERVATION —

STATION NAME  
JACKSONVILLE, FLORIDA

STATION

YEARS

HRS. LST	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
MEAN	60.7	59.7	59.7	62.1	64.1	74.1	76.3	76.3	74.3	65.1	59.9	59.1	64.1
S.D.	11.9	10.1	11.9	6.3	4.1	2.3	2.5	2.6	2.4	7.6	4.7	4.1	12.2
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	47.3	47.3	47.3	61.6	64.1	74.1	76.3	76.3	74.3	65.1	59.9	59.1	64.1
S.D.	11.9	10.1	11.9	6.3	4.1	2.3	2.5	2.6	2.4	7.6	4.7	4.1	12.2
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	47.3	47.3	47.3	61.6	64.1	74.1	76.3	76.3	74.3	65.1	59.9	59.1	64.1
S.D.	11.9	10.1	11.9	6.3	4.1	2.3	2.5	2.6	2.4	7.6	4.7	4.1	12.2
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	54.2	54.2	54.2	71.9	74.1	83.1	85.1	84.6	82.6	73.6	65.4	59.7	71.7
S.D.	11.3	11.3	11.3	5.7	4.3	3.3	3.2	2.9	4.0	5.6	6.5	2.7	13.4
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	62.4	62.4	62.4	76.9	79.7	86.5	88.5	87.8	85.6	76.7	71.4	62.9	76.4
S.D.	11.3	11.3	11.3	5.7	4.3	3.3	3.2	2.9	4.0	5.6	6.5	2.7	13.4
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	63.6	63.6	63.6	77.3	80.1	86.4	88.5	87.9	85.9	76.7	71.4	63.2	76.1
S.D.	11.3	11.3	11.3	5.7	4.3	3.3	3.2	2.9	4.0	5.6	6.5	2.7	13.4
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	58.6	58.6	58.6	71.9	74.1	79.7	81.7	80.6	78.6	70.1	61.2	55.9	69.6
S.D.	7.2	9.6	2.3	5.7	5.7	4.4	4.4	3.6	3.4	5.7	8.1	8.8	11.8
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	52.7	52.7	52.7	66.1	72.1	76.2	79.7	77.9	76.9	67.1	60.3	52.7	66.2
S.D.	7.2	9.6	2.3	5.7	5.7	4.4	4.4	3.6	3.4	5.7	8.1	8.8	11.8
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
ALL HOURS	61.1	61.1	61.1	68.4	74.7	79.7	81.9	80.5	78.7	69.5	61.1	54.9	68.6
S.D.	12.4	11.4	10.5	8.4	7.3	6.5	6.3	5.8	5.8	9.0	12.3	11.2	14.2
TOTAL OBS.	194	194	194	194	194	194	194	194	194	194	194	194	2376

# MEANS AND STANDARD DEVIATIONS

TABLE 1. MEANS AND STANDARD DEVIATIONS OF EACH HOURLY OBSERVATION

STATION		STATION NAME												YEARS	
HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUA	
1	MEAN	47.1	46.7	50.6	58.7	66.1	70.8	72.8	72.9	72.7	61.5	45.1	43.1	56.7	
	S. D.	11.775	10.449	8.856	6.869	4.742	2.994	2.649	2.553	3.447	7.451	6.731	6.7	12.44	
	TOTAL OBS	243	226	243	240	242	240	242	242	242	242	242	242	242	
2	MEAN	47.1	46.4	44.3	57.3	64.1	70.0	72.1	72.3	71.4	50.1	37.6	46.0	56.7	
	S. D.	11.179	11.35	8.403	7.472	5.449	3.333	2.739	2.422	3.267	7.211	6.97	11.246	12.677	
	TOTAL OBS	243	226	243	240	242	241	242	242	242	241	242	242	242	
3	MEAN	47.1	44.8	43.7	57.6	64.1	72.0	71.3	72.3	71.6	59.5	53.3	46.0	56.7	
	S. D.	11.539	11.341	8.992	7.567	5.14	2.777	2.850	2.693	3.422	7.427	6.551	11.246	12.677	
	TOTAL OBS	243	226	243	240	242	242	242	242	242	242	242	242	242	
4	MEAN	47.1	40.7	50.1	62.7	70.1	74.9	77.7	76.9	70.5	65.7	50.1	41.7	54.7	
	S. D.	11.539	11.378	8.992	6.466	4.613	2.461	2.344	1.759	3.132	6.233	5.411	11.2	11.777	
	TOTAL OBS	243	226	243	240	242	240	240	240	241	242	241	242	242	
5	MEAN	47.1	52.0	61.1	63.7	70.1	75.1	77.1	76.9	71.4	65.7	61.7	50.7	56.7	
	S. D.	11.539	11.449	8.598	6.709	4.645	2.934	2.456	2.39	2.792	6.241	5.03	11.2	11.777	
	TOTAL OBS	243	226	243	241	242	243	243	243	241	242	241	242	242	
6	MEAN	47.1	47.1	61.3	63.4	70.1	74.5	74.2	74.2	75.0	66.1	53.5	44.7	56.7	
	S. D.	11.14	11.571	8.123	6.649	4.91	2.947	2.792	2.782	3.191	6.139	7.296	9.133	16.724	
	TOTAL OBS	243	226	243	241	242	241	241	240	240	243	240	246	242	
7	MEAN	47.1	47.2	54.2	61.3	67.1	72.7	74.5	74.2	73.1	64.7	59.1	51.7	67.1	
	S. D.	11.540	11.491	8.177	6.879	4.444	2.777	2.591	2.327	2.729	6.628	4.72	5.574	11.576	
	TOTAL OBS	243	226	243	241	242	240	243	243	243	246	242	246	242	
8	MEAN	47.1	46.7	57.1	60.7	67.1	71.6	73.3	73.5	72.6	62.6	50.4	49.4	61.7	
	S. D.	11.179	10.513	7.274	6.312	4.476	2.791	2.553	2.511	2.967	7.417	6.759	6.170	11.944	
	TOTAL OBS	243	226	243	241	242	240	243	243	241	242	241	246	242	
ALL HOURS	MEAN	47.1	46.4	57.0	61.7	67.1	71.7	74.6	74.5	73.4	63.3	57.6	50.3	62.6	
	S. D.	11.074	11.1	8.154	6.434	5.139	3.413	3.173	2.965	2.488	7.739	7.761	10.670	13.043	
	TOTAL OBS	1734	185	1934	1720	194	1521	1984	1484	1923	1984	1923	1984	21376	

# MEANS AND STANDARD DEVIATIONS

BASED ON 174 MONTHLY MEAN TEMPERATURES FROM MONTHLY OBSERVATIONS

STATION NAME  
 OKLAHOMA CITY, OKLAHOMA

YEARS

HR. ST.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	42.6	42.6	45.7	54.7	60.1	71.7	71.4	70.7	69.1	60.7	49.1	42.6	55.4
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	41.7	41.7	44.4	53.1	58.5	70.0	69.7	69.0	67.4	58.9	47.4	41.7	54.4
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	41.0	41.0	43.7	52.4	57.8	69.3	69.0	68.3	66.7	58.2	46.7	41.0	53.7
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	40.1	40.1	42.8	51.5	56.9	68.4	68.1	67.4	65.8	57.3	45.8	40.1	52.8
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	39.2	39.2	41.9	50.6	56.0	67.5	67.2	66.5	64.9	56.4	44.9	39.2	51.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	38.3	38.3	41.0	49.7	55.1	66.6	66.3	65.6	64.0	55.5	44.0	38.3	50.6
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	37.4	37.4	40.1	48.8	54.2	65.7	65.4	64.7	63.1	54.6	43.1	37.4	49.7
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	36.5	36.5	39.2	47.9	53.3	64.8	64.5	63.8	62.2	53.7	42.2	36.5	48.8
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	35.6	35.6	38.3	47.0	52.4	63.9	63.6	62.9	61.3	52.8	41.3	35.6	47.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	34.7	34.7	37.4	46.1	51.5	63.0	62.7	62.0	60.4	51.9	40.4	34.7	46.1
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	33.8	33.8	36.5	45.2	50.6	62.1	61.8	61.1	59.5	51.0	39.5	33.8	45.2
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	32.9	32.9	35.6	43.9	49.3	60.8	60.5	59.8	58.2	49.7	38.2	32.9	43.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	32.0	32.0	34.7	43.0	48.4	59.9	59.6	58.9	57.3	48.8	37.3	32.0	43.0
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	31.1	31.1	33.8	42.1	47.5	59.0	58.7	58.0	56.4	47.9	36.4	31.1	42.1
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	30.2	30.2	32.9	40.8	46.2	57.7	57.4	56.7	55.1	46.6	35.5	30.2	40.8
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	29.3	29.3	32.0	39.5	44.9	56.4	56.1	55.4	53.8	45.3	34.8	29.3	39.5
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	28.4	28.4	31.1	38.2	43.6	55.1	54.8	54.1	52.5	44.0	33.7	28.4	38.2
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	27.5	27.5	30.2	36.9	42.3	53.8	53.5	52.8	51.2	42.7	32.8	27.5	36.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	26.6	26.6	29.3	35.6	41.0	52.5	52.2	51.5	49.9	41.4	31.9	26.6	35.6
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	25.7	25.7	28.4	34.0	39.4	50.9	50.6	49.9	48.3	39.8	31.0	25.7	34.0
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	24.8	24.8	27.5	32.9	38.3	49.8	49.5	48.8	47.2	38.7	30.1	24.8	32.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	23.9	23.9	26.6	31.1	36.5	48.0	47.7	47.0	45.4	36.9	29.2	23.9	31.1
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	23.0	23.0	25.7	30.2	35.6	47.1	46.8	46.1	44.5	36.0	28.3	23.0	30.2
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	22.1	22.1	24.8	28.4	33.8	45.3	45.0	44.3	42.7	35.0	27.4	22.1	28.4
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	21.2	21.2	23.9	27.5	32.9	44.4	44.1	43.4	41.8	34.1	26.7	21.2	27.5
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	20.3	20.3	23.0	26.6	32.0	43.5	43.2	42.5	40.9	33.2	26.0	20.3	26.6
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	19.4	19.4	22.1	25.7	31.1	42.6	42.3	41.6	40.0	32.3	25.3	19.4	25.7
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	18.5	18.5	21.2	24.8	30.2	41.7	41.4	40.7	39.1	31.6	24.5	18.5	24.8
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	17.6	17.6	20.3	23.9	28.4	40.8	40.5	39.8	38.2	30.7	23.7	17.6	23.9
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	16.7	16.7	19.4	23.0	27.5	39.9	39.6	38.9	37.3	29.8	23.0	16.7	23.0
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	15.8	15.8	18.5	22.1	26.6	38.0	37.7	37.0	35.4	27.9	22.1	15.8	22.1
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	14.9	14.9	17.6	21.2	25.7	37.1	36.8	36.1	34.5	27.0	21.2	14.9	21.2
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	14.0	14.0	16.7	20.3	24.8	36.2	35.9	35.2	33.6	26.5	20.3	14.0	20.3
S.D.	10.1	10.1	10.4	10.7	10.3	10.6	10.4	10.6	10.7	10.1	10.1	10.1	10.1
TOTAL OBS.	24	24	24	24	24	24	24	24	24	24	24	24	24
MEAN	13.1	13.1	15.8	19.4	23.9	35.3	35.0	34.3					



# RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

MONTH	HOURS PER DAY	PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY GREATER THAN									WEIGHT AVERAGE RELATIVE HUMIDITY	STANDARD DEVIATION
		100	90	80	70	60	50	40	30	20		
JAN	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FEB	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MAR	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
APR	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MAY	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
JUN	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
JUL	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AUG	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SEP	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
OCT	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NOV	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEC	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOTAL	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

# RELATIVE HUMIDITY

STATION: 1111, FL 1  
 DATE: 1964

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 FROM HOURLY OBSERVATIONS

MONTH	NO. OF OBS.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								TOTAL PERCENTAGE OCCURRENCE
		10	20	30	40	50	60	70	80	
1	1	100	100	100	100	100	100	100	100	100
2	1	100	100	100	100	100	100	100	100	100
3	1	100	100	100	100	100	100	100	100	100
4	1	100	100	100	100	100	100	100	100	100
5	1	100	100	100	100	100	100	100	100	100
6	1	100	100	100	100	100	100	100	100	100
7	1	100	100	100	100	100	100	100	100	100
8	1	100	100	100	100	100	100	100	100	100
9	1	100	100	100	100	100	100	100	100	100
10	1	100	100	100	100	100	100	100	100	100
11	1	100	100	100	100	100	100	100	100	100
12	1	100	100	100	100	100	100	100	100	100
TOTAL	12	100	100	100	100	100	100	100	100	100

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# RELATIVE HUMIDITY

STATION: **LAKE CHARLES, LA**  
 DATE: **1964**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1	1	100.0	100.0	100.0	100.0	97.0	92.1	78.0	60.0	30.0	70.0	1
2	1	100.0	100.0	100.0	100.0	97.0	92.0	78.0	60.0	30.0	70.0	1
3	1	100.0	100.0	100.0	100.0	95.0	90.0	75.0	55.0	25.0	65.0	1
4	1	100.0	100.0	100.0	99.0	97.0	90.0	75.0	55.0	25.0	65.0	1
5	1	100.0	98.0	95.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
6	1	100.0	98.0	95.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
7	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
8	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
9	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
10	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
11	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
12	1	100.0	100.0	96.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	1
TOTALS	12	100.0	98.0	95.0	86.0	75.0	60.0	45.0	30.0	15.0	55.0	12

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# RELATIVE HUMIDITY

STATION NAME  
 11-11  
 PERIOD  
 MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
1	1	100.0	100.0	100.0	100.0	100.0	99.6	96.3	76.7	30.9	84.6	140
2	1	100.0	100.0	100.0	100.0	100.0	99.6	97.9	87.1	30.5	87.9	140
3	1	100.0	100.0	100.0	100.0	100.0	100.0	97.5	84.6	37.9	87.6	140
4	1	100.0	100.0	100.0	100.0	97.1	83.3	38.6	6.7	1.7	65.0	140
5	1	100.0	100.0	100.0	96.7	77.1	38.6	17.1	7.1	1.3	59.1	140
6	1	100.0	100.0	99.6	83.3	75.1	47.5	24.2	9.6	1.7	61.7	140
7	1	100.0	100.0	100.0	88.6	94.6	84.2	24.6	24.6	7.5	72.1	140
8	1	100.0	100.0	100.0	100.0	99.6	97.9	86.7	57.5	14.2	80.8	140

# RELATIVE HUMIDITY

STATION NAME  
DAKOTA, FLORIDA

PERIOD

DATE

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	100.0	98.0	93.7	76.5	27.6	84.8	248
	02	100.0	100.0	100.0	100.0	100.0	99.6	95.6	85.3	11.0	87.6	248
	03	100.0	100.0	100.0	100.0	100.0	100.0	96.4	86.3	35.0	87.6	248
	04	100.0	100.0	100.0	99.6	95.6	87.5	36.3	11.0	7.0	69.7	248
	05	100.0	100.0	100.0	98.4	92.7	39.5	15.3	4.5	2.0	60.1	248
	06	100.0	100.0	100.0	98.0	74.0	53.2	31.0	10.5	4.0	63.3	248
	07	100.0	100.0	100.0	100.0	98.0	63.9	50.8	29.2	4.5	72.0	248
	08	100.0	100.0	100.0	100.0	100.0	96.0	87.5	50.8	17.9	80.2	248
	09											
	10											
	11											
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	31											
TOTALS		100.0	100.0	100.0	99.5	94.0	80.1	63.3	45.1	18.0	75.6	1984

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# RELATIVE HUMIDITY

STATION JACKSONVILLE, FLORIDA

77-41

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1		100.0	100.0	100.0	100.0	100.0	99.6	96.7	74.6	21.4	85.2	243
2		100.0	100.0	100.0	100.0	100.0	99.2	97.5	92.3	31.7	47.8	244
3		100.0	100.0	100.0	100.0	100.0	99.6	96.3	84.3	46.0	59.2	249
4		100.0	100.0	100.0	100.0	100.0	95.2	41.5	7.7	2.0	71.4	249
5		100.0	100.0	100.0	99.6	88.1	42.3	17.7	1.5	2.0	51.5	248
6		100.0	100.0	100.0	99.2	55.7	61.3	25.7	13.7	5.2	64.7	243
7		100.0	100.0	100.0	100.0	100.0	94.8	64.1	24.2	7.3	74.4	244
8		100.0	100.0	100.0	100.0	100.0	100.0	41.5	57.7	12.1	91.8	246
9												
10												
11												
12												
TOTALS		100.0	100.0	100.0	99.9	97.1	86.5	66.5	44.1	17.0	76.9	1944

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# RELATIVE HUMIDITY

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS EST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
1	100.0	100.0	100.0	99.2	96.0	90.7	79.4	63.7	40.7	21.2	74.4	245
2	100.0	100.0	100.0	100.0	97.7	92.3	82.3	70.6	56.2	42.7	72.7	245
3	100.0	100.0	100.0	100.0	98.0	94.0	86.0	73.6	59.0	43.0	72.7	245
4	100.0	100.0	100.0	99.0	97.0	94.0	87.3	77.0	65.7	56.7	72.7	245
5	100.0	100.0	95.6	82.6	65.7	42.3	27.8	14.0	6.0	50.0	72.7	245
6	100.0	100.0	91.1	75.2	60.0	44.0	27.4	15.7	6.0	57.0	72.7	245
7	100.0	100.0	100.0	98.0	90.7	75.0	59.0	45.0	30.0	17.0	72.7	245
8	100.0	100.0	100.0	99.6	96.0	90.3	75.4	56.4	37.7	17.7	72.7	245
9												
10												
11												
12												
TOTALS		100.0	99.7	94.6	87.0	74.0	61.7	45.4	31.9	17.4	72.4	1994

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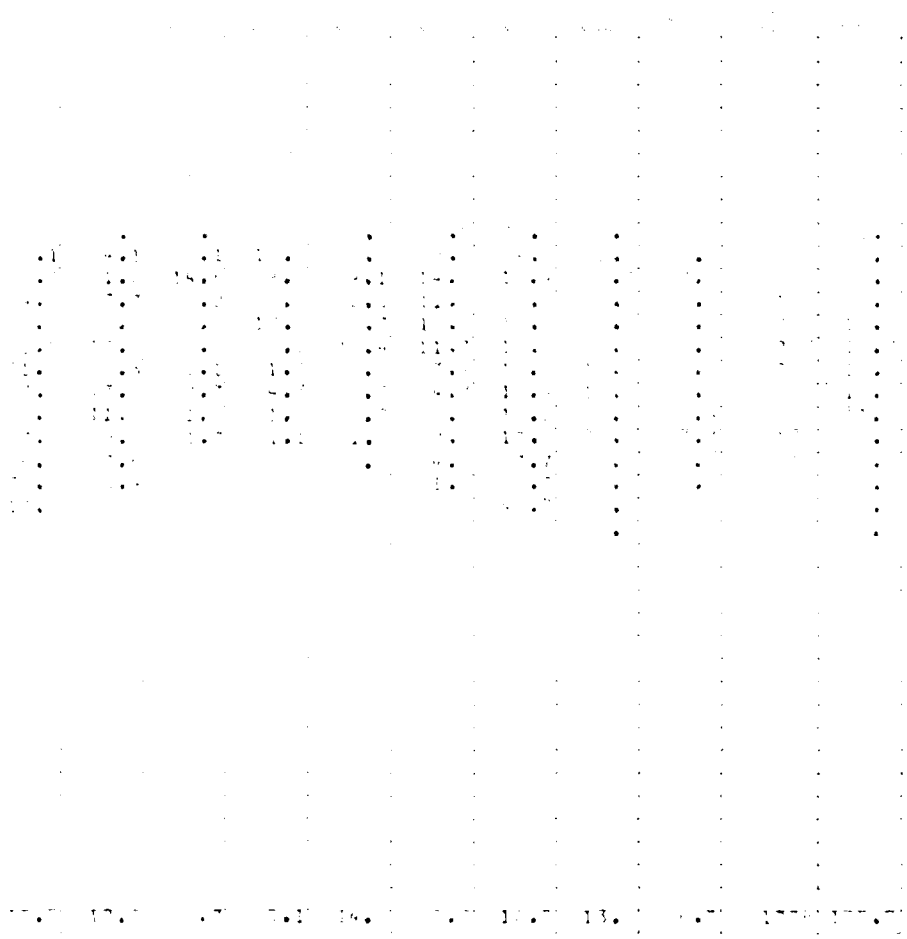
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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION



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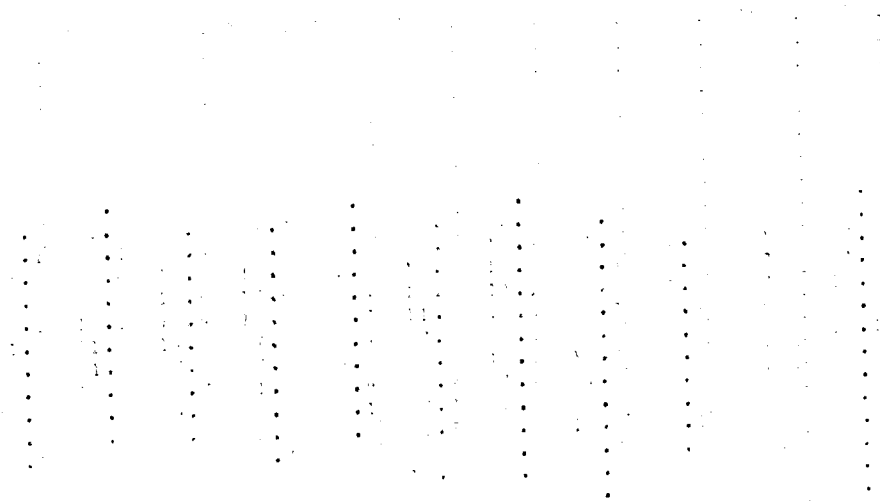
PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION

NAVYAL SYSTEM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION



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WIND DIRECTION

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WIND DIRECTION

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## PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

## WIND DIRECTION

FAIRBANKS, ALASKA

JANUARY 1973-1974

JANUARY

ALL

## WIND DIRECTION

TEMP.	NW A.W.	N A.NE	E A.E	SE A.SE	SW A.SW	WSW A.W	WNW A.NW	W A.W	TOTAL FREQ.	% TOTAL
122										
123										
124										
125										
126										
127			5.0	5.0	5.0					
128	6.0	6.0	9.0	15.0	15.0	14.0	20.0	4.0	60	7.0
129	6.5	11.0	10.5	15.5	15.1	9.7	17.2	5.9	82	10.0
130	6.0	9.0	8.0	16.7	13.0	5.6	14.0	5.1	70	8.0
131	3.0	9.0	16.5	17.2	2.0	13.6	10.2	3.0	60	7.0
132	6.7	10.2	11.5	8.1	13.9	19.7	7.0	4.6	80	10.0
133	10.0	7.0	3.0	1.0	5.0	21.8	22.0	12.0	100	10.0
134			11.1	11.1		22.2	22.2	11.1	66	8.0
135							100.0			1.0
136										
137										
138										
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197										
198										
199										
TOTALS	5.0	8.0	15.0	12.0	15.0	14.0	17.0	5.0	3.0	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

AIR - 1000, FLTY 2

JAN - A - 1973 - DECEMBER 1974

JULY ALL

## WIND DIRECTION

TEMP.	NW S-N	NE N-NE	ESE E-S	ENE E-NE	SE S-E	SSW S-SW	WSW W-SW	WNW W-NW	TOTAL	TOTAL FREQ	% TOTAL
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
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96											
97											
98											
99											
100											
TOTALS	3.5	5.5	12.1	13.9	17.8	18.6	19.5	4.3	4.6	100.0	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION: FLEET

PERIOD: JANUARY 1973-DECEMBER 1973

MONTH: AUGUST

YEAR: 1973

WIND DIRECTION											
SW	WSW	W	WNW	W	WSW	WSW	WSW	WSW	WSW	TOTAL	%
SW	WSW	W	WNW	W	WSW	WSW	WSW	WSW	WSW	TOTAL	%
10-12											
12-14											
14-16											
16-18											
18-20											
20-22											
22-24											
24-26											
26-28											
28-30											
30-32											
32-34											
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36-38											
38-40											
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52-54											
54-56											
56-58											
58-60											
60-62											
62-64											
64-66											
66-68											
68-70											
70-72											
72-74											
74-76											
76-78											
78-80											
80-82											
82-84											
84-86											
86-88											
88-90											
90-92											
92-94											
94-96											
96-98											
98-100											
TOTALS	7.5	10.1	14.5	15.6	16.6	12.1	11.9	3.6	7.5	1484	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

STATION: MAE WATTS, FLORIDA

PERIOD: JANUARY 1971-DECEMBER 1980

STATION: MAE WATTS

ALL

WIND DIRECTION

YEAR	NNW & N	NNE & NE	ESE & E	ENE & SE	SSW & S	SSW & SW	WSW & W	WNW & NW	WNW & NW	TOTAL FREQ.	% TOTAL
1971											
1972											
1973											
1974											
1975											
1976											
1977											
1978											
1979											
1980											
1981											
1982											
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2011											
2012											
2013											
2014											
2015											
2016											
2017											
2018											
2019											
2020											
TOTALS	27.6	26.8	12.4	5.8	5.0	3.6	12.4	9.8	4.3	108.4	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

NAVAIR STATION, FLORIDA

JAN 4 7 1971-DEC 31 1971

NAVY MOBILE

WIND DIRECTION

TEMP.	SWW S.W.	SW S.W.	SE S.E.	E E.	ENE S.E.	ESE S.W.	W S.W.	WNW S.W.	W S.W.	WSW S.W.	W S.W.	TOTAL FREQ.	% TOTAL
01-05													
06-10													
11-15													
16-20													
21-25													
26-30													
31-35													
36-40													
41-45													
46-50													
51-55													
56-60													
61-65													
66-70													
71-75													
76-80													
81-85													
86-90													
91-95													
96-100													
101-105													
106-110													
111-115													
116-120													
121-125													
126-130													
131-135													
136-140													
141-145													
146-150													
151-155													
156-160													
161-165													
166-170													
171-175													
176-180													
181-185													
186-190													
191-195													
196-200													
TOTALS	20.6	18.0	8.7	9.0	9.6	6.4	9.4	11.8	6.4	1919	100.0		



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## WIND DIRECTION

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

DATE: JUL 1, 1971 YEAR: 1971-1972 MONTH: JUL

TEMP	WIND DIRECTION										TOTAL FREQ.	OF TOTAL
	SEW S.W.	SWW S.W.	WSW W.S.	WSW W.S.	SSW S.S.	SSW S.S.	WSW W.S.	WSW W.S.	WSW W.S.	WSW W.S.		
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TOTALS	11.7	12.7	11.9	10.9	13.7	18.7	15.0	8.6	4.8	23375	100.0	

NAVWEASERVCOM

Wagon, General Building  
Asheville, N. C.

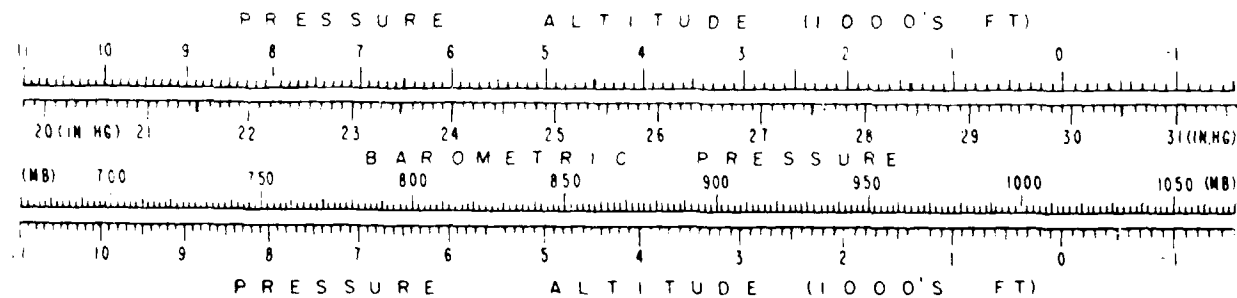
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1953 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



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1. *Journal of the American Medical Association*, 1990; 263: 1025-1028.

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